

88057313

TN

859

.C64

C3755

no-2

V.5

U.S. DEPARTMENT OF THE INTERIOR  
PROTOTYPE OIL SHALE LEASING PROGRAM

TRACT C-b

QUARTERLY REPORT #2

(Through February 28, 1975)

BLM Library  
D-553A, Building 50  
Denver Federal Center  
P. O. Box 25047  
Denver, CO 80225-0047

Submitted to:

Mr. Peter A. Rutledge  
Area Oil Shale Supervisor  
Conservation District  
U. S. Geological Survey  
Grand Junction, Colorado

By:

Ashland Oil, Inc.  
Atlantic Richfield Company, Operator  
Shell Oil Company  
The Oil Shale Corporation

APRIL 14, 1975





TABLE OF CONTENTS BY VOLUME NUMBER

<u>Volume Number</u>	<u>Table of Contents</u>
I	I. PRE-EXPLORATION ENVIRONMENTAL RECONNAISSANCE SURVEYS
	A. Biological
	B. Archaeological
	II. ENVIRONMENTAL BASELINE MONITORING PROGRAMS
	A. Surface Water
	1. Streams
	2. Springs and Seeps
	B. Core Drilling and Associated Ground Water
	1. Well Survey Plats
	2. Completion Data
	3. Drilling Water Production
	4. Water Quality - Drilling
	5. Water Quality - Baseline
	6. Water Quality - Pump Tests
	7. Aquifer Data - Jetting Tests
	8. Aquifer Data - Drill Stem & Multipacker Tests
II	a. Drill Stem Tests - SG-17
III & IV	b. MPT Series 1 - SG-17
V	c. MPT Series 2 - SG-17
VI	d. MPT Series 3 - SG-17
	e. Drill Stem Tests - SG-20
	f. Drill Stem Tests - SG-21
	9. Aquifer Data - Pumping Tests
VII & VIII	10. Lithologic Logs
	11. Geophysical Logs
	12. Assays
	13. Trace Element Analysis
	14. Rock Mechanics
	15. Gas Samples
IX	C. Air Quality
	1. Air Quality and Surface Meteorology
	2. Low Altitude Meteorology
	3. Upper Air Studies
	4. Visibility
	5. Atmospheric Diffusion Studies
X XI & XII	6. Radian AQ Data
XIII	D. Biology
	1. Terrestrial Wildlife Studies
	2. Aquatic Studies
	3. Terrestrial Vegetation Studies
	4. Dendrochronology and Dendroclimatology
	5. Soil Survey and Productivity Assessment
	III. OTHER STUDIES
	A. Fish and Wildlife Management Plan
	B. Revegetation Program
	C. Microenvironmental Program
	D. Aerial Photographic Study
	E. Archaeological Studies
	F. Scenic Values Program

Table of Contents

1. INTRODUCTION	1
2. SCOPE	2
3. REFERENCES	3

1. INTRODUCTION

1.1. Purpose and Scope	1
1.2. Objectives	2
1.3. Definitions	3
1.4. Abbreviations	4
1.5. References	5
1.6. Summary	6
1.7. Conclusions	7
1.8. Recommendations	8
1.9. Acknowledgments	9
1.10. Appendix A - List of Symbols	10
1.11. Appendix B - List of Figures	11
1.12. Appendix C - List of Tables	12
1.13. Appendix D - List of Equations	13
1.14. Appendix E - List of References	14
1.15. Appendix F - List of Figures	15
1.16. Appendix G - List of Tables	16
1.17. Appendix H - List of Equations	17
1.18. Appendix I - List of References	18
1.19. Appendix J - List of Figures	19
1.20. Appendix K - List of Tables	20
1.21. Appendix L - List of Equations	21
1.22. Appendix M - List of References	22
1.23. Appendix N - List of Figures	23
1.24. Appendix O - List of Tables	24
1.25. Appendix P - List of Equations	25
1.26. Appendix Q - List of References	26
1.27. Appendix R - List of Figures	27
1.28. Appendix S - List of Tables	28
1.29. Appendix T - List of Equations	29
1.30. Appendix U - List of References	30
1.31. Appendix V - List of Figures	31
1.32. Appendix W - List of Tables	32
1.33. Appendix X - List of Equations	33
1.34. Appendix Y - List of References	34
1.35. Appendix Z - List of Figures	35

2. SCOPE

2.1. General	1
2.2. Specific	2
2.3. Summary	3
2.4. Conclusions	4
2.5. Recommendations	5
2.6. Acknowledgments	6
2.7. Appendix A - List of Symbols	7
2.8. Appendix B - List of Figures	8
2.9. Appendix C - List of Tables	9
2.10. Appendix D - List of Equations	10
2.11. Appendix E - List of References	11
2.12. Appendix F - List of Figures	12
2.13. Appendix G - List of Tables	13
2.14. Appendix H - List of Equations	14
2.15. Appendix I - List of References	15
2.16. Appendix J - List of Figures	16
2.17. Appendix K - List of Tables	17
2.18. Appendix L - List of Equations	18
2.19. Appendix M - List of References	19
2.20. Appendix N - List of Figures	20
2.21. Appendix O - List of Tables	21
2.22. Appendix P - List of Equations	22
2.23. Appendix Q - List of References	23
2.24. Appendix R - List of Figures	24
2.25. Appendix S - List of Tables	25
2.26. Appendix T - List of Equations	26
2.27. Appendix U - List of References	27
2.28. Appendix V - List of Figures	28
2.29. Appendix W - List of Tables	29
2.30. Appendix X - List of Equations	30
2.31. Appendix Y - List of References	31
2.32. Appendix Z - List of Figures	32

3. REFERENCES

3.1. General	1
3.2. Specific	2
3.3. Summary	3
3.4. Conclusions	4
3.5. Recommendations	5
3.6. Acknowledgments	6
3.7. Appendix A - List of Symbols	7
3.8. Appendix B - List of Figures	8
3.9. Appendix C - List of Tables	9
3.10. Appendix D - List of Equations	10
3.11. Appendix E - List of References	11
3.12. Appendix F - List of Figures	12
3.13. Appendix G - List of Tables	13
3.14. Appendix H - List of Equations	14
3.15. Appendix I - List of References	15
3.16. Appendix J - List of Figures	16
3.17. Appendix K - List of Tables	17
3.18. Appendix L - List of Equations	18
3.19. Appendix M - List of References	19
3.20. Appendix N - List of Figures	20
3.21. Appendix O - List of Tables	21
3.22. Appendix P - List of Equations	22
3.23. Appendix Q - List of References	23
3.24. Appendix R - List of Figures	24
3.25. Appendix S - List of Tables	25
3.26. Appendix T - List of Equations	26
3.27. Appendix U - List of References	27
3.28. Appendix V - List of Figures	28
3.29. Appendix W - List of Tables	29
3.30. Appendix X - List of Equations	30
3.31. Appendix Y - List of References	31
3.32. Appendix Z - List of Figures	32

4. SUMMARY

4.1. General	1
4.2. Specific	2
4.3. Summary	3
4.4. Conclusions	4
4.5. Recommendations	5
4.6. Acknowledgments	6
4.7. Appendix A - List of Symbols	7
4.8. Appendix B - List of Figures	8
4.9. Appendix C - List of Tables	9
4.10. Appendix D - List of Equations	10
4.11. Appendix E - List of References	11
4.12. Appendix F - List of Figures	12
4.13. Appendix G - List of Tables	13
4.14. Appendix H - List of Equations	14
4.15. Appendix I - List of References	15
4.16. Appendix J - List of Figures	16
4.17. Appendix K - List of Tables	17
4.18. Appendix L - List of Equations	18
4.19. Appendix M - List of References	19
4.20. Appendix N - List of Figures	20
4.21. Appendix O - List of Tables	21
4.22. Appendix P - List of Equations	22
4.23. Appendix Q - List of References	23
4.24. Appendix R - List of Figures	24
4.25. Appendix S - List of Tables	25
4.26. Appendix T - List of Equations	26
4.27. Appendix U - List of References	27
4.28. Appendix V - List of Figures	28
4.29. Appendix W - List of Tables	29
4.30. Appendix X - List of Equations	30
4.31. Appendix Y - List of References	31
4.32. Appendix Z - List of Figures	32









JOHNSTON  
Schlumberger

technical  
report

RECEIVED  
JAN 2 1975  
A. J. ROGERS

NOTES

CHAPTER 1

Introduction

1.1

1.2

1.3

1.4

1.5





## SURFACE INFORMATION

[illegible]

## MUD DATA

Mud Type	WATER - FOAM	Wt.	-
Viscosity	-	Water Loss	- C.C.
Resist. of Mud	- @ - °F	of Filtrate	- @ - °F
Chloride Content	-		PPM

## EQUIPMENT &amp; HOLE DATA

Type Test	M. F. E.	OPEN HOLE
Formation Tested	GREEN RIVER	
Elevation	7036	Fe.
Net Productive Interval	52	Fe.
Estimated Porosity	-	%
All Depths Measured From	GROUND LEVEL	
Total Depth	1870	Fe.
Main Hole/Casing Size	6 3/4"	
Rat Hole/Liner Size	-	
Drill Collar Length	298'	I.D. -
Drill Pipe Length	1486'	I.D. -
Packer Depth(s)	1814' & 1818'	
		Fe.

## MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface  
 Recovery: Cu. Ft. Gas \_\_\_\_\_  
               cc. Oil \_\_\_\_\_  
               cc. Water \_\_\_\_\_  
               cc. Mud \_\_\_\_\_  
               Tot. Liquid cc. \_\_\_\_\_  
 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm

[illegible]

Remarks: \_\_\_\_\_

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH  
FEDERAL S. G. #17 Location 436' FWL & 181' FSL SEC. 16-3s-96W  
 Test Interval 1818' TO 1870' Test # 29 Date 12-21-74

County RIO BLANCO State COLORADO II B-1294 Field Report No. 09113 C  
 Technician TAYLOR (VERNAL) Test Approved By MR. L. M. POWERS No. Reports Requested 14 (13x)







**PRESSURE DATA**

Instrument No.	4633 N			Field Report No. 09113 C
Capacity (P.S.I.G.)	2650			
Instrument Depth	1793'			
Instrument Opening	INSIDE			
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.	-			
				<b>TIME DATA</b>
Initial Hydrostatic Mud	A			Time Given      Time Computed
Initial Shut-in	B			Mins.      Mins.
Initial Flow	C			Mins.      Mins.
				Mins.      Mins.
				Mins.      Mins.
Final Flow	D			Mins.      Mins.
Final Shut-in	E			Mins.      Mins.
Final Hydrostatic Mud	F			Mins.      Mins.

Remarks:

INSTRUMENT NUMBER 32342 N; NO PRESSURES RECORDED DUE  
TO MALFUNCTION OF INSTRUMENT.

\*Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.003490 inches per min.

**PRESSURE INCREMENTS**

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
	572.9		30	576.8		62	225.4	
	575.5		31	576.8		63	229.4	
3	0 26.1		32	578.2		64	233.3	
	1 43.2		33	578.2		65	235.9	
4	2 56.3		5 34	578.2		66	241.2	
	3 179.5		35	579.5		67	243.8	
	4 294.9		6 36	579.5		68	246.4	
	5 464.1		7 37	52.4		69	250.4	
	6 511.3		38	91.7		70	254.3	
	7 536.2		39	106.1		71	258.2	
	8 546.7		40	116.6		72	262.2	
	9 553.2		41	125.8		73	264.8	
	10 555.9		42	133.7		74	268.7	
	11 561.1		43	141.5		75	272.6	
	12 562.4		44	148.1		76	276.6	
	13 566.3		45	153.3		77	279.2	
	14 567.7		46	158.6		78	283.1	
	15 569.0		47	162.5		79	285.3	
	16 570.3		48	166.4		80	289.7	
	17 571.6		49	171.7		81	291.0	
	18 571.6		50	175.6		82	294.9	
	19 572.9		51	179.5		83	297.6	
	20 574.2		52	184.8		84	301.5	
	21 574.2		53	188.7		85	304.1	
	22 574.2		54	192.7		86	308.0	
	23 575.5		55	196.6		87	310.7	
	24 575.5		56	201.8		88	313.3	
	25 575.5		57	204.5	IIB-1295	89	315.9	
	26 575.5		58	208.4		90	319.8	
	27 576.8		59	212.3		91	321.2	
	28 576.8		60	216.3		92	325.1	
	29 576.8		61	221.5		93	327.7	







### PRESSURE DATA

Instrument No.	4633 N			Field Report No. 09113 C
Capacity (P.S.I.G.)				
Instrument Depth				
Instrument Opening				
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.				TIME DATA
Initial Hydrostatic Mud	A			Time Given      Time Computed
Initial Shut-in	B			Mins.      Mins.
Initial Flow	C			Mins.      Mins.
				Mins.      Mins.
Final Flow	D			Mins.      Mins.
Final Shut-in	E			Mins.      Mins.
Final Hydrostatic Mud	F			Mins.      Mins.
Remarks:				

\* Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.003490 inches per min.

### PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
94	331.6		126	406.4		166	471.9	
95	334.3		127	409.0		168	473.3	
96	336.9		128	411.6		170	475.9	
97	339.5		129	412.9		172	478.5	
98	342.1		130	415.6		174	481.1	
99	344.8		131	416.9		176	483.7	
100	347.4		132	418.2		178	486.4	
101	350.0		133	420.8		180	487.7	
102	352.6		134	422.1		182	490.3	
103	355.2		135	424.7		184	492.9	
104	357.9		136	426.1		186	494.2	
105	360.5		137	427.4		188	496.9	
106	361.8		138	428.7		190	498.2	
107	365.7		139	431.3		192	499.5	
108	367.0		140	432.6		194	502.1	
109	369.7		141	433.9		196	503.4	
110	372.3		142	436.5		198	504.7	
111	374.9		143	437.9		200	507.3	
112	376.2		144	439.2		202	508.7	
113	378.8		145	441.8		204	510.0	
114	381.5		146	443.1		206	511.3	
115	384.1		147	444.4		208	513.9	
116	386.7		148	445.7		210	513.9	
117	388.0		149	447.0		212	515.2	
118	389.3		150	448.3		214	517.8	
119	392.0		152	452.3		216	519.1	
120	394.6		154	454.9		218	520.5	
121	397.2		156	457.5	II B-1296	220	521.8	
122	399.8		158	460.1		222	523.1	
123	401.1		160	464.1		224	524.4	
124	402.4		162	466.7		226	525.7	
125	405.1		164	469.3		228	527.0	





### PRESSURE DATA

Instrument No.	4633 N			Field Report No. 09113 C	
Capacity (P.S.I.G.)					
Instrument Depth					
Instrument Opening					
Pressure Gradient P.S.I./Ft.					
Well Temperature °F.					
				<b>TIME DATA</b>	
Initial Hydrostatic Mud	A			Time Given	Time Computed
Initial Shut-in	B			Mins.	Mins.
Initial Flow	C			Mins.	Mins.
				Mins.	Mins.
				Mins.	Mins.
Final Flow	D			Mins.	Mins.
Final Shut-in	E			Mins.	Mins.
Final Hydrostatic Mud	F			Mins.	Mins.
Remarks:					

\* Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.003490 inches per min.

### PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
230	527.0		290	778.8		354	667.3	
232	536.2		292	773.5		356	664.7	
234	542.7		294	767.0		358	662.1	
236	549.3		296	760.4		360	660.8	
238	557.2		298	755.2		362	659.4	
240	563.7		300	751.2		364	658.1	
242	570.3		302	746.0		366	655.5	
244	576.8		304	742.1		368	654.2	
246	583.4		306	736.8		370	652.9	
248	588.6		308	732.9		372	651.6	
249	591.3		310	728.9		374	650.3	
250	600.4		312	723.7		376	649.0	
252	610.9		314	721.1		378	647.6	
254	621.4		316	717.1		380	646.3	
256	631.9		318	713.2		382	645.0	
258	641.1		320	709.3		384	643.7	
260	650.3		322	706.6		386	642.4	
262	659.4		324	702.7		388	641.1	
264	667.3		326	700.1		390	639.8	
266	676.5		328	697.5		392	638.5	
268	685.7		330	694.3		394	637.2	
270	710.6		332	690.9		396	635.8	
272	734.2		334	688.3		398	635.3	
274	756.5		336	687.0		400	634.5	
276	777.5		338	684.4		12 402	633.2	
278	784.0		340	681.7		404	614.9	
280	785.3		342	679.1		406	612.2	
282	785.3		344	676.5	11 B-1297	408	609.6	
284	785.3		346	675.2		410	608.3	
286	785.3		348	672.6		412	607.0	
288	785.3		350	669.9		13 414	605.7	
11 289	785.3		352	668.6		14	580.8	







FIELD REPORT NO.

09113 C

CAPACITY

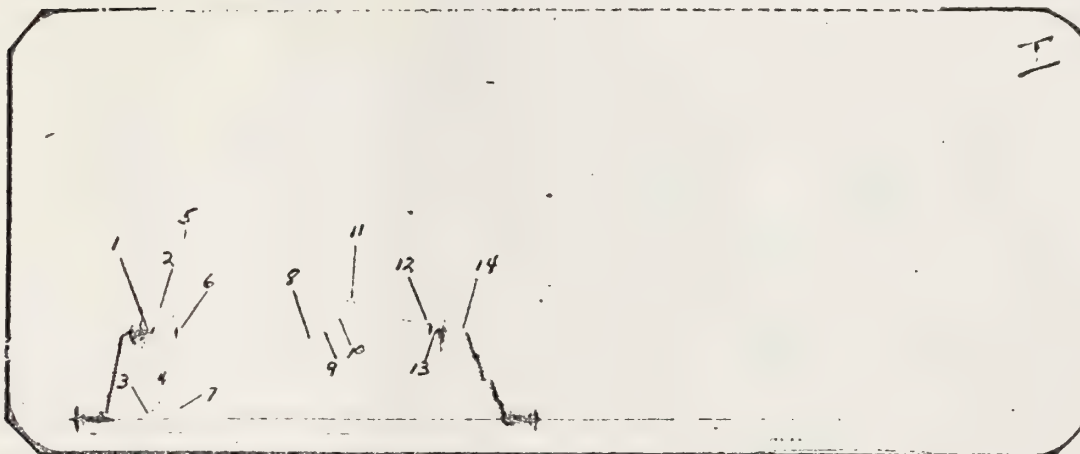
2650#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09113 C

CAPACITY

2800#

RECORDER NO.

32342 N

REPORTS REQUESTED

14+







## PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-1124-A Date Dec 21 1974 Run DOT - 34 Office Camp 1-15-10Customer Area 51 A1 Location Trook CBState GA County/Parish Polk CountyWell 51 A1 No. 17 Field Polk County

USE MILITARY TIME FOR ALL TIMES

Arrive: Well/Dock 1. Time 1200 Date 12/21/74 2. Time \_\_\_\_\_ Date \_\_\_\_\_ Time Charged \_\_\_\_\_Depart: Well/Dock 1. Time 0200 Date 12/21/74 2. Time \_\_\_\_\_ Date \_\_\_\_\_ Hrs. \_\_\_\_\_Gauge Start in Hole 1. Time 1415 Date 12/21/74 2. Time 1431 Date 12/21/74Gauge Out of Hole 1. Time 0141 Date 12/22/74 2. Time 0124 Date 12/22/74 Hrs. \_\_\_\_\_No. Trips 1 Miles 90 Total Mileage 90Top Gauge # 71 Element # 30951 Range 1000 Time Mode 1 minBtm. Gauge # 98 Element # 30951 Range 2500 Time Mode 1 minType Tool DOT Test Depth 1818-1870 Zero Point Ground LevelPacker Depth 1818 Tail Pipe Depth 1776.88 Top Gauge Depth 1776.88Bottom Hole Temp. 26.7° Atmos. Temp. 28° Bottom Gauge Depth 1829.15

## TIME INFORMATION

Time Date

On Bottom 1544-53 12/21/74Packer Set 1615-00 12/21/74Initial Open 1617-15 12/21/74Initial Shut-In 1619-15 12/21/74Start Flow 1652-45 12/21/74Final Shut-In 2301 12/21/74Packer Unseated 2311 12/21/74

## PRESSURE INFORMATION

Initial Hydrostatic Mud \_\_\_\_\_

Initial Draw Down \_\_\_\_\_

Initial Build-Up \_\_\_\_\_

Final Flow \_\_\_\_\_

Final Build-Up \_\_\_\_\_

Final Hydrostatic Mud \_\_\_\_\_

Mud Weight \_\_\_\_\_

## TIME OF SURFACE NULLS

Top Gauge 1417-55 1418-55 1419-53 Bottom Gauge 1409-13 1410-13 1411-13Remarks One False Null on #71 while screwing in.Van on Drill Pipe Broke loose about 1604 hrs (bad shock)



JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER: FEDERAL SG 17  
FIELD/LEASE TRACT C-B SORGHUM GULCH  
COUNTY/PARISH RIO BLANCO  
STATE COLORADO  
TYPE OF TEST DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 71 WITH 1000 LB. ELEMENT,  
GAUGE LOCATED OUTSIDE D.P. IN ANNULUS  
ABOVE PACKER  
DEPTH OF GAUGE IS 1777 FT.  
TEST INTERVAL SURFACE TO 1818 FT.  
SET PACKER DEPTH IS 1818 FT.  
INITIAL HYDROSTATIC IS 569.32 PSI  
FINAL HYDROSTATIC IS 575.12 PSI  
GROUND LEVEL REFERENCE IS 7036 FT.

II B-1300

509 POINTS REPORTED THIS JOB

PAGE 1 OF 14 PAGES





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	569.528	16 19	DEC 21, 1974	INITIAL SHUT IN
.016	569.220	16 20	DEC 21, 1974	
.031	569.267	16 21	DEC 21, 1974	
.047	569.291	16 22	DEC 21, 1974	
.062	569.315	16 23	DEC 21, 1974	
.078	569.315	16 24	DEC 21, 1974	
.093	569.362	16 25	DEC 21, 1974	
.109	569.386	16 26	DEC 21, 1974	
.124	569.362	16 26	DEC 21, 1974	
.140	569.362	16 27	DEC 21, 1974	
.155	569.386	16 28	DEC 21, 1974	
.171	569.433	16 29	DEC 21, 1974	
.186	569.433	16 30	DEC 21, 1974	
.202	569.433	16 31	DEC 21, 1974	
.217	569.457	16 32	DEC 21, 1974	
.233	569.481	16 33	DEC 21, 1974	
.248	569.528	16 34	DEC 21, 1974	
.264	569.504	16 35	DEC 21, 1974	
.279	569.552	16 36	DEC 21, 1974	
.295	569.575	16 37	DEC 21, 1974	
.310	569.623	16 38	DEC 21, 1974	
.326	569.623	16 39	DEC 21, 1974	
.341	569.670	16 39	DEC 21, 1974	
.357	569.670	16 40	DEC 21, 1974	
.372	569.694	16 41	DEC 21, 1974	
.388	569.694	16 42	DEC 21, 1974	
.403	569.717	16 43	DEC 21, 1974	
.419	569.765	16 44	DEC 21, 1974	
.434	569.765	16 45	DEC 21, 1974	
.450	569.765	16 46	DEC 21, 1974	
.465	569.812	16 47	DEC 21, 1974	
.481	569.836	16 48	DEC 21, 1974	
.496	569.836	16 49	DEC 21, 1974	
.512	569.859	16 50	DEC 21, 1974	
.527	569.883	16 51	DEC 21, 1974	
.543	569.907	16 52	DEC 21, 1974	
.558	570.002	16 53	DEC 21, 1974	END SHUT IN

II B-1301

37 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	570.002	16 53	DEC 21, 1974	START FLOW
.013	569.836	16 54	DEC 21, 1974	
.026	569.859	16 55	DEC 21, 1974	
.039	569.978	16 55	DEC 21, 1974	
.052	570.002	16 56	DEC 21, 1974	
.065	570.167	16 57	DEC 21, 1974	
.078	570.167	16 58	DEC 21, 1974	
.091	570.215	16 58	DEC 21, 1974	
.104	570.191	16 59	DEC 21, 1974	
.117	570.238	17 00	DEC 21, 1974	
.130	570.238	17 01	DEC 21, 1974	
.143	570.310	17 02	DEC 21, 1974	
.156	570.286	17 02	DEC 21, 1974	
.169	570.333	17 03	DEC 21, 1974	
.182	570.333	17 04	DEC 21, 1974	
.195	570.381	17 05	DEC 21, 1974	
.208	570.404	17 06	DEC 21, 1974	
.221	570.381	17 06	DEC 21, 1974	
.234	570.404	17 07	DEC 21, 1974	
.247	570.452	17 08	DEC 21, 1974	
.260	570.452	17 09	DEC 21, 1974	
.273	570.475	17 09	DEC 21, 1974	
.286	570.523	17 10	DEC 21, 1974	
.300	570.523	17 11	DEC 21, 1974	
.313	570.523	17 12	DEC 21, 1974	
.326	570.523	17 13	DEC 21, 1974	
.339	570.546	17 13	DEC 21, 1974	
.352	570.617	17 14	DEC 21, 1974	
.365	570.617	17 15	DEC 21, 1974	
.378	570.617	17 16	DEC 21, 1974	
.391	570.617	17 16	DEC 21, 1974	
.404	570.665	17 17	DEC 21, 1974	
.417	570.712	17 18	DEC 21, 1974	
.430	570.712	17 19	DEC 21, 1974	
.443	570.736	17 20	DEC 21, 1974	
.456	570.760	17 20	DEC 21, 1974	
.469	570.783	17 21	DEC 21, 1974	
.482	570.783	17 22	DEC 21, 1974	
.495	570.783	17 23	DEC 21, 1974	
.508	570.831	17 23	DEC 21, 1974	





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.521	570,807	17 24	DEC 21,1974	
.534	570,831	17 25	DEC 21,1974	
.547	570,831	17 26	DEC 21,1974	
.560	570,878	17 27	DEC 21,1974	
.573	570,902	17 27	DEC 21,1974	
.586	570,902	17 28	DEC 21,1974	
.599	570,902	17 29	DEC 21,1974	
.612	570,949	17 30	DEC 21,1974	
.625	570,949	17 31	DEC 21,1974	
.638	570,996	17 31	DEC 21,1974	
.651	570,973	17 32	DEC 21,1974	
.664	571,020	17 33	DEC 21,1974	
.677	571,044	17 34	DEC 21,1974	
.690	571,044	17 34	DEC 21,1974	
.703	571,091	17 35	DEC 21,1974	
.716	571,115	17 36	DEC 21,1974	
.729	571,091	17 37	DEC 21,1974	
.742	571,115	17 38	DEC 21,1974	
.755	571,139	17 38	DEC 21,1974	
.768	571,162	17 39	DEC 21,1974	
.781	571,186	17 40	DEC 21,1974	
.794	571,233	17 41	DEC 21,1974	
.807	571,257	17 41	DEC 21,1974	
.820	571,233	17 42	DEC 21,1974	
.833	571,281	17 43	DEC 21,1974	
.846	571,281	17 44	DEC 21,1974	
.859	571,328	17 45	DEC 21,1974	
.872	571,328	17 45	DEC 21,1974	
.885	571,375	17 46	DEC 21,1974	
.899	571,375	17 47	DEC 21,1974	
.912	571,375	17 48	DEC 21,1974	
.925	571,375	17 48	DEC 21,1974	
.938	571,375	17 49	DEC 21,1974	
.951	571,423	17 50	DEC 21,1974	
.964	571,446	17 51	DEC 21,1974	
.977	571,423	17 52	DEC 21,1974	
.990	571,470	17 52	DEC 21,1974	
1.003	571,494	17 53	DEC 21,1974	
1.016	571,518	17 54	DEC 21,1974	
1.029	571,518	17 55	DEC 21,1974	



JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,042	571,518	17 56	DEC 21, 1974	
1,055	571,518	17 56	DEC 21, 1974	
1,068	571,541	17 57	DEC 21, 1974	
1,081	571,541	17 58	DEC 21, 1974	
1,094	571,565	17 59	DEC 21, 1974	
1,107	571,612	17 59	DEC 21, 1974	
1,120	571,612	18 00	DEC 21, 1974	
1,133	571,660	18 01	DEC 21, 1974	
1,146	571,660	18 02	DEC 21, 1974	
1,159	571,683	18 03	DEC 21, 1974	
1,172	571,707	18 03	DEC 21, 1974	
1,185	571,683	18 04	DEC 21, 1974	
1,198	571,707	18 05	DEC 21, 1974	
1,211	571,731	18 06	DEC 21, 1974	
1,224	571,754	18 06	DEC 21, 1974	
1,237	571,778	18 07	DEC 21, 1974	
1,250	571,802	18 08	DEC 21, 1974	
1,263	571,802	18 09	DEC 21, 1974	
1,276	571,825	18 10	DEC 21, 1974	
1,289	571,849	18 10	DEC 21, 1974	
1,302	571,849	18 11	DEC 21, 1974	
1,315	571,873	18 12	DEC 21, 1974	
1,328	571,897	18 13	DEC 21, 1974	
1,341	571,920	18 13	DEC 21, 1974	
1,354	571,920	18 14	DEC 21, 1974	
1,367	571,944	18 15	DEC 21, 1974	
1,380	571,944	18 16	DEC 21, 1974	
1,393	571,968	18 17	DEC 21, 1974	
1,406	571,991	18 17	DEC 21, 1974	
1,419	571,991	18 18	DEC 21, 1974	
1,432	571,991	18 19	DEC 21, 1974	
1,445	572,086	18 20	DEC 21, 1974	
1,458	572,062	18 21	DEC 21, 1974	
1,471	572,062	18 21	DEC 21, 1974	
1,485	572,110	18 22	DEC 21, 1974	
1,498	572,110	18 23	DEC 21, 1974	
1,511	572,157	18 24	DEC 21, 1974	
1,524	572,133	18 24	DEC 21, 1974	
1,537	572,157	18 25	DEC 21, 1974	
1,550	572,157	18 26	DEC 21, 1974	





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,563	572,133	18 27	DEC 21, 1974	
1,576	572,181	18 28	DEC 21, 1974	
1,589	572,157	18 28	DEC 21, 1974	
1,602	572,204	18 29	DEC 21, 1974	
1,615	572,228	18 30	DEC 21, 1974	
1,628	572,204	18 31	DEC 21, 1974	
1,641	572,228	18 31	DEC 21, 1974	
1,654	572,228	18 32	DEC 21, 1974	
1,667	572,252	18 33	DEC 21, 1974	
1,680	572,275	18 34	DEC 21, 1974	
1,693	572,252	18 35	DEC 21, 1974	
1,706	572,252	18 35	DEC 21, 1974	
1,719	572,299	18 36	DEC 21, 1974	
1,732	572,323	18 37	DEC 21, 1974	
1,745	572,323	18 38	DEC 21, 1974	
1,758	572,370	18 38	DEC 21, 1974	
1,771	572,418	18 39	DEC 21, 1974	
1,784	572,418	18 40	DEC 21, 1974	
1,797	572,418	18 41	DEC 21, 1974	
1,810	572,418	18 42	DEC 21, 1974	
1,823	572,418	18 42	DEC 21, 1974	
1,836	572,441	18 43	DEC 21, 1974	
1,849	572,465	18 44	DEC 21, 1974	
1,862	572,465	18 45	DEC 21, 1974	
1,875	572,465	18 46	DEC 21, 1974	
1,888	572,465	18 46	DEC 21, 1974	
1,901	572,489	18 47	DEC 21, 1974	
1,914	572,465	18 48	DEC 21, 1974	
1,927	572,489	18 49	DEC 21, 1974	
1,940	572,512	18 49	DEC 21, 1974	
1,953	572,512	18 50	DEC 21, 1974	
1,966	572,560	18 51	DEC 21, 1974	
1,979	572,583	18 52	DEC 21, 1974	
1,992	572,607	18 53	DEC 21, 1974	
2,005	572,631	18 53	DEC 21, 1974	
2,018	572,654	18 54	DEC 21, 1974	
2,031	572,631	18 55	DEC 21, 1974	
2,044	572,654	18 56	DEC 21, 1974	
2,057	572,678	18 56	DEC 21, 1974	
2,070	572,678	18 57	DEC 21, 1974	





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,084	572,702	18 58	DEC 21, 1974	
2,097	572,749	18 59	DEC 21, 1974	
2,110	572,749	19 00	DEC 21, 1974	
2,123	572,749	19 00	DEC 21, 1974	
2,136	572,749	19 01	DEC 21, 1974	
2,149	572,797	19 02	DEC 21, 1974	
2,162	572,773	19 03	DEC 21, 1974	
2,175	572,773	19 03	DEC 21, 1974	
2,188	572,773	19 04	DEC 21, 1974	
2,201	572,797	19 05	DEC 21, 1974	
2,214	572,820	19 06	DEC 21, 1974	
2,227	572,820	19 07	DEC 21, 1974	
2,240	572,844	19 07	DEC 21, 1974	
2,253	572,844	19 08	DEC 21, 1974	
2,266	572,844	19 09	DEC 21, 1974	
2,279	572,868	19 10	DEC 21, 1974	
2,292	572,868	19 11	DEC 21, 1974	
2,305	572,891	19 11	DEC 21, 1974	
2,318	572,891	19 12	DEC 21, 1974	
2,331	572,915	19 13	DEC 21, 1974	
2,344	572,939	19 14	DEC 21, 1974	
2,357	572,962	19 14	DEC 21, 1974	
2,370	572,962	19 15	DEC 21, 1974	
2,383	572,986	19 16	DEC 21, 1974	
2,396	572,986	19 17	DEC 21, 1974	
2,409	572,986	19 18	DEC 21, 1974	
2,422	573,010	19 18	DEC 21, 1974	
2,435	573,010	19 19	DEC 21, 1974	
2,448	573,010	19 20	DEC 21, 1974	
2,461	573,057	19 21	DEC 21, 1974	
2,474	573,057	19 21	DEC 21, 1974	
2,487	573,033	19 22	DEC 21, 1974	
2,500	573,057	19 23	DEC 21, 1974	
2,513	573,081	19 24	DEC 21, 1974	
2,526	573,057	19 25	DEC 21, 1974	
2,539	573,081	19 25	DEC 21, 1974	
2,552	573,105	19 26	DEC 21, 1974	
2,565	573,128	19 27	DEC 21, 1974	
2,578	573,128	19 28	DEC 21, 1974	
2,591	573,128	19 28	DEC 21, 1974	



JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,604	573,152	19 29	DEC 21, 1974	
2,617	573,176	19 30	DEC 21, 1974	
2,630	573,199	19 31	DEC 21, 1974	
2,643	573,176	19 32	DEC 21, 1974	
2,656	573,176	19 32	DEC 21, 1974	
2,669	573,223	19 33	DEC 21, 1974	
2,683	573,199	19 34	DEC 21, 1974	END RECOVERY
2,696	573,223	19 35	DEC 21, 1974	
2,709	573,247	19 36	DEC 21, 1974	
2,722	573,247	19 36	DEC 21, 1974	
2,735	573,247	19 37	DEC 21, 1974	
2,748	573,294	19 38	DEC 21, 1974	
2,761	573,318	19 39	DEC 21, 1974	
2,774	573,341	19 39	DEC 21, 1974	
2,787	573,294	19 40	DEC 21, 1974	
2,800	573,341	19 41	DEC 21, 1974	
2,813	573,365	19 42	DEC 21, 1974	
2,826	573,389	19 43	DEC 21, 1974	
2,839	573,389	19 43	DEC 21, 1974	
2,852	573,365	19 44	DEC 21, 1974	
2,865	573,389	19 45	DEC 21, 1974	
2,878	573,389	19 46	DEC 21, 1974	
2,891	573,412	19 46	DEC 21, 1974	
2,904	573,412	19 47	DEC 21, 1974	
2,917	573,412	19 48	DEC 21, 1974	
2,930	573,436	19 49	DEC 21, 1974	
2,943	573,507	19 50	DEC 21, 1974	
2,956	573,460	19 50	DEC 21, 1974	
2,969	573,483	19 51	DEC 21, 1974	
2,982	573,507	19 52	DEC 21, 1974	
2,995	573,483	19 53	DEC 21, 1974	
3,008	573,483	19 53	DEC 21, 1974	
3,021	573,507	19 54	DEC 21, 1974	
3,034	573,507	19 55	DEC 21, 1974	
3,047	573,507	19 56	DEC 21, 1974	
3,060	573,531	19 57	DEC 21, 1974	
3,073	573,578	19 57	DEC 21, 1974	
3,086	573,555	19 58	DEC 21, 1974	
3,099	573,602	19 59	DEC 21, 1974	
3,112	573,578	20 00	DEC 21, 1974	





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,125	573,578	20 01	DEC 21,1974	
3,138	573,602	20 01	DEC 21,1974	
3,151	573,626	20 02	DEC 21,1974	
3,164	573,626	20 03	DEC 21,1974	
3,177	573,626	20 04	DEC 21,1974	
3,190	573,649	20 04	DEC 21,1974	
3,203	573,649	20 05	DEC 21,1974	
3,216	573,673	20 06	DEC 21,1974	2 G/M DOWN
3,229	573,673	20 07	DEC 21,1974	DRILL PIPE
3,242	573,673	20 08	DEC 21,1974	
3,255	573,673	20 08	DEC 21,1974	
3,269	573,720	20 09	DEC 21,1974	
3,282	573,744	20 10	DEC 21,1974	
3,295	573,768	20 11	DEC 21,1974	
3,308	573,744	20 11	DEC 21,1974	
3,321	573,720	20 12	DEC 21,1974	
3,334	573,791	20 13	DEC 21,1974	
3,347	573,791	20 14	DEC 21,1974	
3,360	573,791	20 15	DEC 21,1974	
3,373	573,791	20 15	DEC 21,1974	
3,386	573,815	20 16	DEC 21,1974	
3,399	573,815	20 17	DEC 21,1974	
3,412	573,839	20 18	DEC 21,1974	
3,425	573,839	20 18	DEC 21,1974	
3,438	573,862	20 19	DEC 21,1974	
3,451	573,886	20 20	DEC 21,1974	
3,464	573,862	20 21	DEC 21,1974	
3,477	573,862	20 22	DEC 21,1974	
3,490	573,934	20 22	DEC 21,1974	
3,503	573,910	20 23	DEC 21,1974	
3,516	573,957	20 24	DEC 21,1974	
3,529	573,910	20 25	DEC 21,1974	
3,542	573,957	20 26	DEC 21,1974	
3,555	574,005	20 26	DEC 21,1974	5 G/M DOWN
3,568	574,005	20 27	DEC 21,1974	DRILL PIPE
3,581	574,005	20 28	DEC 21,1974	
3,594	574,028	20 29	DEC 21,1974	
3,607	574,028	20 29	DEC 21,1974	
3,620	574,052	20 30	DEC 21,1974	
3,633	574,028	20 31	DEC 21,1974	



JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,646	574,028	20 32	DEC 21, 1974	
3,659	574,052	20 33	DEC 21, 1974	
3,672	574,052	20 33	DEC 21, 1974	
3,685	574,052	20 34	DEC 21, 1974	
3,698	574,099	20 35	DEC 21, 1974	
3,711	574,099	20 36	DEC 21, 1974	
3,724	574,123	20 36	DEC 21, 1974	
3,737	573,626	20 37	DEC 21, 1974	
3,750	574,147	20 38	DEC 21, 1974	
3,763	574,147	20 39	DEC 21, 1974	
3,776	574,170	20 40	DEC 21, 1974	
3,789	574,194	20 40	DEC 21, 1974	
3,802	574,194	20 41	DEC 21, 1974	
3,815	574,194	20 42	DEC 21, 1974	
3,828	574,218	20 43	DEC 21, 1974	
3,841	574,241	20 43	DEC 21, 1974	
3,854	574,241	20 44	DEC 21, 1974	
3,868	574,241	20 45	DEC 21, 1974	
3,881	574,265	20 46	DEC 21, 1974	10 G/M DOWN
3,894	574,265	20 47	DEC 21, 1974	DRILL PIPE
3,907	574,289	20 47	DEC 21, 1974	
3,920	574,313	20 48	DEC 21, 1974	
3,933	574,289	20 49	DEC 21, 1974	
3,946	574,313	20 50	DEC 21, 1974	
3,959	574,336	20 51	DEC 21, 1974	
3,972	574,360	20 51	DEC 21, 1974	
3,985	574,360	20 52	DEC 21, 1974	
3,998	574,360	20 53	DEC 21, 1974	
4,011	574,360	20 54	DEC 21, 1974	
4,024	574,360	20 54	DEC 21, 1974	
4,037	574,384	20 55	DEC 21, 1974	5 G/M DOWN
4,050	574,431	20 56	DEC 21, 1974	DRILL PIPE
4,063	574,455	20 57	DEC 21, 1974	
4,076	574,431	20 58	DEC 21, 1974	
4,089	574,431	20 58	DEC 21, 1974	
4,102	574,478	20 59	DEC 21, 1974	
4,115	574,478	21 00	DEC 21, 1974	
4,128	574,502	21 01	DEC 21, 1974	
4,141	574,526	21 01	DEC 21, 1974	
4,154	574,573	21 02	DEC 21, 1974	





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,167	574,691	21 03	DEC 21,1974	
4,180	574,763	21 04	DEC 21,1974	
4,193	574,834	21 05	DEC 21,1974	
4,206	574,857	21 05	DEC 21,1974	
4,219	574,928	21 06	DEC 21,1974	30 MIN DECLINE
4,232	574,952	21 07	DEC 21,1974	
4,245	575,047	21 08	DEC 21,1974	
4,258	575,094	21 08	DEC 21,1974	
4,271	575,070	21 09	DEC 21,1974	
4,284	575,047	21 10	DEC 21,1974	
4,297	575,094	21 11	DEC 21,1974	
4,310	575,070	21 12	DEC 21,1974	
4,323	575,070	21 12	DEC 21,1974	
4,336	575,047	21 13	DEC 21,1974	
4,349	575,047	21 14	DEC 21,1974	
4,362	575,047	21 15	DEC 21,1974	
4,375	575,047	21 16	DEC 21,1974	
4,388	575,023	21 16	DEC 21,1974	
4,401	575,023	21 17	DEC 21,1974	
4,414	575,023	21 18	DEC 21,1974	
4,427	575,047	21 19	DEC 21,1974	
4,440	574,999	21 19	DEC 21,1974	
4,454	575,023	21 20	DEC 21,1974	
4,467	575,023	21 21	DEC 21,1974	
4,480	574,999	21 22	DEC 21,1974	
4,493	574,976	21 23	DEC 21,1974	
4,506	575,023	21 23	DEC 21,1974	
4,519	574,999	21 24	DEC 21,1974	
4,532	574,999	21 25	DEC 21,1974	
4,545	574,999	21 26	DEC 21,1974	
4,558	575,047	21 26	DEC 21,1974	
4,571	575,023	21 27	DEC 21,1974	
4,584	575,023	21 28	DEC 21,1974	
4,597	574,999	21 29	DEC 21,1974	
4,610	575,047	21 30	DEC 21,1974	
4,623	575,047	21 30	DEC 21,1974	
4,636	575,047	21 31	DEC 21,1974	
4,649	575,047	21 32	DEC 21,1974	
4,662	575,070	21 33	DEC 21,1974	
4,675	575,094	21 33	DEC 21,1974	



JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.688	575,070	21 34	DEC 21, 1974	
4.701	575,094	21 35	DEC 21, 1974	
4.714	575,070	21 36	DEC 21, 1974	
4.727	575,094	21 37	DEC 21, 1974	
4.740	575,094	21 37	DEC 21, 1974	
4.753	578,221	21 38	DEC 21, 1974	
4.766	580,116	21 39	DEC 21, 1974	
4.779	582,366	21 40	DEC 21, 1974	
4.792	583,763	21 41	DEC 21, 1974	
4.805	584,190	21 41	DEC 21, 1974	
4.818	585,492	21 42	DEC 21, 1974	
4.831	586,677	21 43	DEC 21, 1974	
4.844	587,624	21 44	DEC 21, 1974	
4.857	588,643	21 44	DEC 21, 1974	
4.870	589,685	21 45	DEC 21, 1974	
4.883	590,467	21 46	DEC 21, 1974	
4.896	591,367	21 47	DEC 21, 1974	
4.909	591,556	21 48	DEC 21, 1974	
4.922	592,101	21 48	DEC 21, 1974	
4.935	592,859	21 49	DEC 21, 1974	
4.948	593,048	21 50	DEC 21, 1974	
4.961	593,569	21 51	DEC 21, 1974	
4.974	594,233	21 51	DEC 21, 1974	
4.987	594,848	21 52	DEC 21, 1974	
5.000	595,417	21 53	DEC 21, 1974	
5.013	595,891	21 54	DEC 21, 1974	
5.026	596,222	21 55	DEC 21, 1974	
5.039	596,483	21 55	DEC 21, 1974	
5.053	596,767	21 56	DEC 21, 1974	
5.066	597,122	21 57	DEC 21, 1974	
5.079	597,430	21 58	DEC 21, 1974	
5.092	597,572	21 58	DEC 21, 1974	
5.105	597,880	21 59	DEC 21, 1974	
5.118	597,951	22 00	DEC 21, 1974	
5.131	598,141	22 01	DEC 21, 1974	
5.144	598,283	22 02	DEC 21, 1974	
5.157	598,544	22 02	DEC 21, 1974	
5.170	598,780	22 03	DEC 21, 1974	
5.183	598,970	22 04	DEC 21, 1974	
5.196	599,065	22 05	DEC 21, 1974	

60 G/M DOWN  
ANNULUS





JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO, 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,209	599,278	22 06	DEC 21, 1974	
5,222	599,467	22 06	DEC 21, 1974	
5,235	599,657	22 07	DEC 21, 1974	
5,248	599,633	22 08	DEC 21, 1974	
5,261	599,846	22 09	DEC 21, 1974	
5,274	599,988	22 09	DEC 21, 1974	
5,287	600,083	22 10	DEC 21, 1974	
5,300	600,225	22 11	DEC 21, 1974	
5,313	600,438	22 12	DEC 21, 1974	
5,326	600,628	22 13	DEC 21, 1974	
5,339	600,794	22 13	DEC 21, 1974	
5,352	600,960	22 14	DEC 21, 1974	
5,365	601,220	22 15	DEC 21, 1974	
5,378	601,481	22 16	DEC 21, 1974	
5,391	601,623	22 16	DEC 21, 1974	
5,404	601,741	22 17	DEC 21, 1974	
5,417	601,907	22 18	DEC 21, 1974	
5,430	602,025	22 19	DEC 21, 1974	
5,443	602,168	22 20	DEC 21, 1974	
5,456	602,144	22 20	DEC 21, 1974	
5,469	602,286	22 21	DEC 21, 1974	
5,482	602,404	22 22	DEC 21, 1974	
5,495	602,547	22 23	DEC 21, 1974	
5,508	602,641	22 23	DEC 21, 1974	
5,521	602,783	22 24	DEC 21, 1974	
5,534	602,783	22 25	DEC 21, 1974	
5,547	602,831	22 26	DEC 21, 1974	
5,560	602,831	22 27	DEC 21, 1974	
5,573	602,902	22 27	DEC 21, 1974	
5,586	602,973	22 28	DEC 21, 1974	
5,599	603,020	22 29	DEC 21, 1974	
5,612	603,115	22 30	DEC 21, 1974	
5,625	603,162	22 31	DEC 21, 1974	
5,638	603,210	22 31	DEC 21, 1974	
5,652	603,281	22 32	DEC 21, 1974	
5,665	603,352	22 33	DEC 21, 1974	
5,678	603,470	22 34	DEC 21, 1974	
5,691	603,589	22 34	DEC 21, 1974	
5,704	603,731	22 35	DEC 21, 1974	
5,717	603,826	22 36	DEC 21, 1974	START 30 MIN



JOB NUMBER  
SPG 11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
71 DST NO. 29

DATE OF RUN  
JANUARY 21, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,730	602,665	22 37	DEC 21,1974	DECLINE
5,743	600,320	22 38	DEC 21,1974	
5,756	597,478	22 38	DEC 21,1974	
5,769	595,559	22 39	DEC 21,1974	
5,782	593,380	22 40	DEC 21,1974	
5,795	591,911	22 41	DEC 21,1974	
5,808	590,490	22 41	DEC 21,1974	
5,821	588,808	22 42	DEC 21,1974	
5,834	587,743	22 43	DEC 21,1974	
5,847	586,535	22 44	DEC 21,1974	
5,860	585,492	22 45	DEC 21,1974	
5,873	584,569	22 45	DEC 21,1974	
5,886	584,308	22 46	DEC 21,1974	
5,899	583,479	22 47	DEC 21,1974	
5,912	582,745	22 48	DEC 21,1974	
5,925	582,318	22 48	DEC 21,1974	
5,938	581,750	22 49	DEC 21,1974	
5,951	581,253	22 50	DEC 21,1974	
5,964	580,921	22 51	DEC 21,1974	
5,977	580,518	22 52	DEC 21,1974	
5,990	580,234	22 52	DEC 21,1974	
6,003	579,926	22 53	DEC 21,1974	
6,016	579,666	22 54	DEC 21,1974	
6,029	579,476	22 55	DEC 21,1974	
6,042	579,263	22 56	DEC 21,1974	
6,055	579,144	22 56	DEC 21,1974	
6,068	579,002	22 57	DEC 21,1974	
6,081	578,860	22 58	DEC 21,1974	
6,094	578,813	22 59	DEC 21,1974	
6,107	578,742	22 59	DEC 21,1974	
6,120	578,694	23 00	DEC 21,1974	
6,133	578,742	23 01	DEC 21,1974	END OF TEST

II B-1313

472 POINTS REPORTED THIS RUN

PAGE 14





JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG 17  
FIELD/LEASE      TRACT C-B SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 98 WITH 2500 LB. ELEMENT,  
GAUGE LOCATED INSIDE D.P. BELOW PACKER.  
DEPTH OF GAUGE IS 1829 FT.  
TEST INTERVAL 1818 TO 1870 FT.  
SET PACKER DEPTH IS 1818 FT.  
INITIAL HYDROSTATIC IS 591.05 PSI  
FINAL HYDROSTATIC IS 624.28 PSI  
GROUND LEVEL REFERENCE IS 7036 FT.

II B-1314

406 POINTS REPORTED THIS JOB

PAGE 1 OF 12 PAGES



JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	58.142	16 19	DEC 21, 1974	INITIAL SHUTIN
.017	61.448	16 20	DEC 21, 1974	
.033	54.835	16 21	DEC 21, 1974	
.050	66.031	16 22	DEC 21, 1974	
.067	408.865	16 23	DEC 21, 1974	
.083	519.674	16 24	DEC 21, 1974	
.100	532.019	16 25	DEC 21, 1974	
.117	557.059	16 26	DEC 21, 1974	
.133	566.244	16 27	DEC 21, 1974	
.150	571.919	16 28	DEC 21, 1974	
.167	576.073	16 29	DEC 21, 1974	
.183	579.408	16 30	DEC 21, 1974	
.200	581.982	16 31	DEC 21, 1974	
.217	583.854	16 32	DEC 21, 1974	
.233	585.434	16 33	DEC 21, 1974	
.250	586.721	16 34	DEC 21, 1974	
.267	587.716	16 35	DEC 21, 1974	
.283	588.535	16 36	DEC 21, 1974	
.300	589.354	16 37	DEC 21, 1974	
.317	590.173	16 38	DEC 21, 1974	
.333	590.758	16 39	DEC 21, 1974	
.350	591.285	16 40	DEC 21, 1974	
.367	591.694	16 41	DEC 21, 1974	
.383	592.162	16 42	DEC 21, 1974	
.400	592.513	16 43	DEC 21, 1974	
.417	592.864	16 44	DEC 21, 1974	
.433	593.157	16 45	DEC 21, 1974	
.450	593.508	16 46	DEC 21, 1974	
.467	593.800	16 47	DEC 21, 1974	
.483	593.976	16 48	DEC 21, 1974	
.500	594.327	16 49	DEC 21, 1974	
.517	594.619	16 50	DEC 21, 1974	
.533	594.795	16 51	DEC 21, 1974	
.550	594.853	16 52	DEC 21, 1974	
.567	594.970	16 53	DEC 21, 1974	END OF INITIAL

II B-1315

35 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	197,542	16 53	DEC 21, 1974	OPEN TO FLOW
.017	192,727	16 54	DEC 21, 1974	
.033	189,595	16 55	DEC 21, 1974	
.050	193,655	16 56	DEC 21, 1974	
.066	80,476	16 57	DEC 21, 1974	
.083	91,440	16 58	DEC 21, 1974	
.099	101,476	16 59	DEC 21, 1974	
.116	112,382	17 00	DEC 21, 1974	
.133	124,796	17 01	DEC 21, 1974	
.149	135,470	17 02	DEC 21, 1974	
.166	144,578	17 03	DEC 21, 1974	
.182	152,467	17 04	DEC 21, 1974	
.199	159,835	17 05	DEC 21, 1974	
.215	167,260	17 06	DEC 21, 1974	
.232	171,959	17 07	DEC 21, 1974	
.249	176,542	17 08	DEC 21, 1974	
.265	181,125	17 09	DEC 21, 1974	
.282	185,534	17 10	DEC 21, 1974	
.298	190,059	17 11	DEC 21, 1974	
.315	194,758	17 12	DEC 21, 1974	
.332	198,934	17 13	DEC 21, 1974	
.348	203,169	17 14	DEC 21, 1974	
.365	207,404	17 15	DEC 21, 1974	
.381	211,644	17 16	DEC 21, 1974	
.398	215,740	17 17	DEC 21, 1974	
.414	219,952	17 18	DEC 21, 1974	
.431	224,106	17 19	DEC 21, 1974	
.448	228,026	17 20	DEC 21, 1974	
.464	232,004	17 21	DEC 21, 1974	
.481	236,099	17 22	DEC 21, 1974	
.497	240,136	17 23	DEC 21, 1974	
.514	243,939	17 24	DEC 21, 1974	
.530	247,917	17 25	DEC 21, 1974	
.547	251,720	17 26	DEC 21, 1974	
.564	255,289	17 27	DEC 21, 1974	
.580	258,916	17 28	DEC 21, 1974	
.597	262,661	17 29	DEC 21, 1974	
.613	266,464	17 30	DEC 21, 1974	
.630	270,032	17 31	DEC 21, 1974	
.646	273,718	17 32	DEC 21, 1974	



JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.663	277.346	17 33	DEC 21, 1974	
.680	280.856	17 34	DEC 21, 1974	
.696	284.425	17 35	DEC 21, 1974	
.713	288.169	17 36	DEC 21, 1974	
.729	291.504	17 37	DEC 21, 1974	
.746	294.897	17 38	DEC 21, 1974	
.763	298.349	17 39	DEC 21, 1974	
.779	301.567	17 40	DEC 21, 1974	
.796	304.902	17 41	DEC 21, 1974	
.812	307.944	17 42	DEC 21, 1974	
.829	311.045	17 43	DEC 21, 1974	
.845	314.204	17 44	DEC 21, 1974	
.862	317.246	17 45	DEC 21, 1974	
.879	320.230	17 46	DEC 21, 1974	
.895	323.214	17 47	DEC 21, 1974	
.912	326.256	17 48	DEC 21, 1974	
.928	329.240	17 49	DEC 21, 1974	
.945	332.282	17 50	DEC 21, 1974	
.961	335.090	17 51	DEC 21, 1974	
.978	338.074	17 52	DEC 21, 1974	
.995	340.882	17 53	DEC 21, 1974	
1.011	343.632	17 54	DEC 21, 1974	
1.028	346.440	17 55	DEC 21, 1974	
1.044	349.248	17 56	DEC 21, 1974	
1.061	351.998	17 57	DEC 21, 1974	
1.077	354.806	17 58	DEC 21, 1974	
1.094	357.498	17 59	DEC 21, 1974	
1.111	360.306	18 00	DEC 21, 1974	
1.127	362.939	18 01	DEC 21, 1974	
1.144	365.630	18 02	DEC 21, 1974	
1.160	368.029	18 03	DEC 21, 1974	
1.177	370.603	18 04	DEC 21, 1974	
1.194	373.119	18 05	DEC 21, 1974	
1.210	375.400	18 06	DEC 21, 1974	
1.227	378.150	18 07	DEC 21, 1974	
1.243	380.549	18 08	DEC 21, 1974	
1.260	382.772	18 09	DEC 21, 1974	
1.276	385.229	18 10	DEC 21, 1974	
1.293	387.569	18 11	DEC 21, 1974	
1.310	389.968	18 12	DEC 21, 1974	





JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,326	392,250	18 13	DEC 21, 1974	
1,343	394,532	18 14	DEC 21, 1974	
1,359	396,872	18 15	DEC 21, 1974	
1,376	399,095	18 16	DEC 21, 1974	
1,392	401,494	18 17	DEC 21, 1974	
1,409	403,717	18 18	DEC 21, 1974	
1,426	405,940	18 19	DEC 21, 1974	
1,442	408,163	18 20	DEC 21, 1974	
1,459	410,328	18 21	DEC 21, 1974	
1,475	412,376	18 22	DEC 21, 1974	
1,492	414,540	18 23	DEC 21, 1974	
1,508	416,764	18 24	DEC 21, 1974	
1,525	418,811	18 25	DEC 21, 1974	
1,542	420,859	18 25	DEC 21, 1974	
1,558	422,731	18 26	DEC 21, 1974	
1,575	424,720	18 27	DEC 21, 1974	
1,591	426,709	18 28	DEC 21, 1974	
1,608	428,640	18 29	DEC 21, 1974	
1,625	430,629	18 30	DEC 21, 1974	
1,641	432,618	18 31	DEC 21, 1974	
1,658	434,549	18 32	DEC 21, 1974	
1,674	436,363	18 33	DEC 21, 1974	
1,691	438,235	18 34	DEC 21, 1974	
1,707	440,049	18 35	DEC 21, 1974	
1,724	441,804	18 36	DEC 21, 1974	
1,741	443,676	18 37	DEC 21, 1974	
1,757	445,431	18 38	DEC 21, 1974	
1,774	447,186	18 39	DEC 21, 1974	
1,790	448,941	18 40	DEC 21, 1974	
1,807	450,580	18 41	DEC 21, 1974	
1,823	452,276	18 42	DEC 21, 1974	
1,840	453,680	18 43	DEC 21, 1974	
1,857	455,669	18 44	DEC 21, 1974	
1,873	457,308	18 45	DEC 21, 1974	
1,890	458,829	18 46	DEC 21, 1974	
1,906	460,291	18 47	DEC 21, 1974	
1,923	461,930	18 48	DEC 21, 1974	
1,939	463,451	18 49	DEC 21, 1974	
1,956	464,972	18 50	DEC 21, 1974	
1,973	466,551	18 51	DEC 21, 1974	



JOB NUMBER  
SPG-11210 AA

DATE OF JC8  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,989	467,956	18 52	DEC 21, 1974	
2,006	469,360	18 53	DEC 21, 1974	
2,022	470,822	18 54	DEC 21, 1974	
2,039	472,285	18 55	DEC 21, 1974	
2,055	473,923	18 56	DEC 21, 1974	
2,072	475,269	18 57	DEC 21, 1974	
2,089	476,614	18 58	DEC 21, 1974	
2,105	477,901	18 59	DEC 21, 1974	
2,122	479,306	19 00	DEC 21, 1974	
2,138	480,593	19 01	DEC 21, 1974	
2,155	481,821	19 02	DEC 21, 1974	
2,172	483,518	19 03	DEC 21, 1974	
2,188	484,630	19 04	DEC 21, 1974	
2,205	485,917	19 05	DEC 21, 1974	
2,221	487,262	19 06	DEC 21, 1974	
2,238	488,491	19 07	DEC 21, 1974	
2,254	489,778	19 08	DEC 21, 1974	
2,271	491,007	19 09	DEC 21, 1974	
2,288	492,177	19 10	DEC 21, 1974	
2,304	493,464	19 11	DEC 21, 1974	
2,321	494,692	19 12	DEC 21, 1974	
2,337	495,863	19 13	DEC 21, 1974	
2,354	497,033	19 14	DEC 21, 1974	
2,370	498,203	19 15	DEC 21, 1974	
2,387	499,373	19 16	DEC 21, 1974	
2,404	500,426	19 17	DEC 21, 1974	
2,420	501,479	19 18	DEC 21, 1974	
2,437	502,591	19 19	DEC 21, 1974	
2,453	503,644	19 20	DEC 21, 1974	
2,470	504,697	19 21	DEC 21, 1974	
2,486	505,691	19 22	DEC 21, 1974	
2,503	506,745	19 23	DEC 21, 1974	
2,520	507,739	19 24	DEC 21, 1974	
2,536	508,734	19 25	DEC 21, 1974	
2,553	509,728	19 26	DEC 21, 1974	
2,569	510,781	19 27	DEC 21, 1974	
2,586	511,776	19 28	DEC 21, 1974	
2,603	512,771	19 29	DEC 21, 1974	
2,619	513,707	19 30	DEC 21, 1974	
2,636	514,701	19 31	DEC 21, 1974	





JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,652	515,579	19 32	DEC 21, 1974	
2,669	516,456	19 33	DEC 21, 1974	
2,685	517,451	19 34	DEC 21, 1974	END RECOVERY
2,702	518,270	19 35	DEC 21, 1974	
2,719	519,148	19 36	DEC 21, 1974	
2,735	520,025	19 37	DEC 21, 1974	
2,752	521,020	19 38	DEC 21, 1974	
2,768	521,780	19 39	DEC 21, 1974	
2,785	522,716	19 40	DEC 21, 1974	
2,801	523,594	19 41	DEC 21, 1974	
2,818	524,413	19 42	DEC 21, 1974	
2,835	525,232	19 43	DEC 21, 1974	
2,851	526,051	19 44	DEC 21, 1974	
2,868	526,812	19 45	DEC 21, 1974	
2,884	527,631	19 46	DEC 21, 1974	
2,901	528,391	19 47	DEC 21, 1974	
2,917	529,152	19 48	DEC 21, 1974	
2,934	529,913	19 49	DEC 21, 1974	
2,951	530,673	19 50	DEC 21, 1974	
2,967	531,375	19 51	DEC 21, 1974	
2,984	532,136	19 52	DEC 21, 1974	
3,000	532,896	19 53	DEC 21, 1974	
3,017	533,598	19 54	DEC 21, 1974	
3,034	534,301	19 55	DEC 21, 1974	
3,050	535,061	19 56	DEC 21, 1974	
3,067	535,822	19 57	DEC 21, 1974	
3,083	536,582	19 58	DEC 21, 1974	
3,100	537,167	19 59	DEC 21, 1974	
3,116	537,811	20 00	DEC 21, 1974	
3,133	538,571	20 01	DEC 21, 1974	
3,150	539,273	20 02	DEC 21, 1974	
3,166	539,859	20 03	DEC 21, 1974	
3,183	540,502	20 04	DEC 21, 1974	
3,199	541,146	20 05	DEC 21, 1974	
3,216	541,848	20 06	DEC 21, 1974	2 GPM INJECTED
3,232	542,433	20 07	DEC 21, 1974	DOWN D P
3,249	543,018	20 08	DEC 21, 1974	
3,266	543,603	20 09	DEC 21, 1974	
3,282	544,246	20 10	DEC 21, 1974	
3,299	545,475	20 11	DEC 21, 1974	



JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,315	549,512	20 12	DEC 21,1974	
3,332	553,607	20 13	DEC 21,1974	
3,348	557,410	20 14	DEC 21,1974	
3,365	561,271	20 15	DEC 21,1974	
3,382	565,074	20 16	DEC 21,1974	
3,398	568,819	20 17	DEC 21,1974	
3,415	572,212	20 18	DEC 21,1974	
3,431	575,722	20 19	DEC 21,1974	
3,448	579,233	20 20	DEC 21,1974	
3,465	582,801	20 21	DEC 21,1974	
3,481	586,019	20 22	DEC 21,1974	
3,498	589,471	20 23	DEC 21,1974	
3,514	592,747	20 24	DEC 21,1974	
3,531	596,024	20 25	DEC 21,1974	
3,547	599,241	20 26	DEC 21,1974	5 GPM INJECTED
3,564	602,342	20 27	DEC 21,1974	DOWN D P
3,581	605,501	20 28	DEC 21,1974	
3,597	609,421	20 29	DEC 21,1974	
3,614	615,254	20 30	DEC 21,1974	
3,630	620,963	20 31	DEC 21,1974	
3,647	626,613	20 32	DEC 21,1974	
3,663	631,973	20 33	DEC 21,1974	
3,680	637,507	20 34	DEC 21,1974	
3,697	642,925	20 35	DEC 21,1974	
3,713	648,227	20 36	DEC 21,1974	
3,730	653,295	20 37	DEC 21,1974	
3,746	658,130	20 38	DEC 21,1974	
3,763	663,082	20 39	DEC 21,1974	
3,779	667,684	20 40	DEC 21,1974	
3,796	672,403	20 41	DEC 21,1974	
3,813	677,005	20 42	DEC 21,1974	
3,829	681,607	20 43	DEC 21,1974	
3,846	686,035	20 44	DEC 21,1974	
3,862	690,462	20 45	DEC 21,1974	
3,879	695,064	20 46	DEC 21,1974	10 GPM INJECTED
3,895	699,550	20 47	DEC 21,1974	DOWN D P
3,912	704,152	20 48	DEC 21,1974	
3,929	716,969	20 49	DEC 21,1974	
3,945	730,193	20 50	DEC 21,1974	
3,962	742,718	20 51	DEC 21,1974	





JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO, 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,978	754,427	20 52	DEC 21,1974	
3,995	778,779	20 53	DEC 21,1974	
4,012	792,469	20 54	DEC 21,1974	
4,028	796,372	20 55	DEC 21,1974	5 GPM INJECTED
4,045	801,091	20 56	DEC 21,1974	DOWN D P
4,061	801,498	20 57	DEC 21,1974	
4,078	801,615	20 58	DEC 21,1974	
4,094	801,848	20 59	DEC 21,1974	
4,111	802,081	21 00	DEC 21,1974	
4,128	802,256	21 01	DEC 21,1974	
4,144	802,489	21 02	DEC 21,1974	
4,161	802,664	21 03	DEC 21,1974	
4,177	802,897	21 04	DEC 21,1974	
4,194	803,071	21 05	DEC 21,1974	
4,210	803,246	21 06	DEC 21,1974	START DECLINE
4,227	802,023	21 07	DEC 21,1974	
4,244	798,469	21 08	DEC 21,1974	
4,260	794,915	21 09	DEC 21,1974	
4,277	792,236	21 10	DEC 21,1974	
4,293	789,381	21 11	DEC 21,1974	
4,310	786,527	21 12	DEC 21,1974	
4,326	783,614	21 13	DEC 21,1974	
4,343	780,934	21 14	DEC 21,1974	
4,360	778,254	21 15	DEC 21,1974	
4,376	775,633	21 16	DEC 21,1974	
4,393	773,069	21 17	DEC 21,1974	
4,409	770,564	21 18	DEC 21,1974	
4,426	768,059	21 19	DEC 21,1974	
4,443	765,729	21 20	DEC 21,1974	
4,459	763,515	21 21	DEC 21,1974	
4,476	761,360	21 22	DEC 21,1974	
4,492	759,030	21 23	DEC 21,1974	
4,509	756,758	21 24	DEC 21,1974	
4,525	754,660	21 25	DEC 21,1974	
4,542	752,622	21 26	DEC 21,1974	
4,559	750,641	21 27	DEC 21,1974	
4,575	748,485	21 28	DEC 21,1974	
4,592	746,388	21 29	DEC 21,1974	
4,608	744,349	21 29	DEC 21,1974	
4,625	742,427	21 30	DEC 21,1974	



JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.641	740.504	21 31	DEC 21, 1974	
4.658	738.465	21 32	DEC 21, 1974	
4.675	736.426	21 33	DEC 21, 1974	
4.691	734.504	21 34	DEC 21, 1974	
4.708	732.814	21 35	DEC 21, 1974	
4.724	731.067	21 36	DEC 21, 1974	
4.741	729.436	21 37	DEC 21, 1974	60 GPM ANNULUS
4.757	727.746	21 38	DEC 21, 1974	
4.774	726.231	21 39	DEC 21, 1974	
4.791	724.600	21 40	DEC 21, 1974	
4.807	722.969	21 41	DEC 21, 1974	
4.824	721.396	21 42	DEC 21, 1974	
4.840	719.765	21 43	DEC 21, 1974	
4.857	718.192	21 44	DEC 21, 1974	
4.874	716.736	21 45	DEC 21, 1974	
4.890	715.163	21 46	DEC 21, 1974	
4.907	713.765	21 47	DEC 21, 1974	
4.923	712.250	21 48	DEC 21, 1974	
4.940	710.735	21 49	DEC 21, 1974	
4.956	709.279	21 50	DEC 21, 1974	
4.973	707.881	21 51	DEC 21, 1974	
4.990	706.657	21 52	DEC 21, 1974	
5.006	705.318	21 53	DEC 21, 1974	
5.023	704.036	21 54	DEC 21, 1974	
5.039	702.871	21 55	DEC 21, 1974	
5.056	701.589	21 56	DEC 21, 1974	
5.072	700.308	21 57	DEC 21, 1974	
5.089	699.201	21 58	DEC 21, 1974	
5.106	698.094	21 59	DEC 21, 1974	
5.122	696.929	22 00	DEC 21, 1974	
5.139	695.822	22 01	DEC 21, 1974	
5.155	694.715	22 02	DEC 21, 1974	
5.172	693.608	22 03	DEC 21, 1974	
5.188	692.443	22 04	DEC 21, 1974	
5.205	691.336	22 05	DEC 21, 1974	
5.222	690.229	22 06	DEC 21, 1974	
5.238	689.122	22 07	DEC 21, 1974	
5.255	688.132	22 08	DEC 21, 1974	
5.271	687.200	22 09	DEC 21, 1974	
5.288	686.093	22 10	DEC 21, 1974	





JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO, 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,305	685,161	22 11	DEC 21,1974	
5,321	684,229	22 12	DEC 21,1974	
5,338	683,297	22 13	DEC 21,1974	
5,354	682,306	22 14	DEC 21,1974	
5,371	681,316	22 15	DEC 21,1974	
5,387	680,500	22 16	DEC 21,1974	
5,404	679,627	22 17	DEC 21,1974	
5,421	678,753	22 18	DEC 21,1974	
5,437	677,879	22 19	DEC 21,1974	
5,454	677,063	22 20	DEC 21,1974	
5,470	676,248	22 21	DEC 21,1974	
5,487	675,432	22 22	DEC 21,1974	
5,503	674,617	22 23	DEC 21,1974	
5,520	673,859	22 24	DEC 21,1974	
5,537	673,277	22 25	DEC 21,1974	
5,553	672,461	22 26	DEC 21,1974	
5,570	671,645	22 27	DEC 21,1974	
5,586	670,946	22 28	DEC 21,1974	
5,603	670,189	22 29	DEC 21,1974	
5,619	669,548	22 30	DEC 21,1974	
5,636	668,849	22 31	DEC 21,1974	
5,653	668,092	22 32	DEC 21,1974	
5,669	667,393	22 33	DEC 21,1974	
5,686	666,635	22 34	DEC 21,1974	
5,702	665,936	22 35	DEC 21,1974	
5,719	665,354	22 36	DEC 21,1974	START DECLINE
5,735	664,713	22 37	DEC 21,1974	
5,752	664,014	22 38	DEC 21,1974	
5,769	663,315	22 39	DEC 21,1974	
5,785	662,732	22 40	DEC 21,1974	
5,802	662,091	22 41	DEC 21,1974	
5,818	661,451	22 42	DEC 21,1974	
5,835	660,810	22 43	DEC 21,1974	
5,852	660,169	22 44	DEC 21,1974	
5,868	659,703	22 45	DEC 21,1974	
5,885	659,062	22 46	DEC 21,1974	
5,901	658,363	22 47	DEC 21,1974	
5,918	657,897	22 48	DEC 21,1974	
5,934	657,256	22 49	DEC 21,1974	
5,951	656,674	22 50	DEC 21,1974	



JOB NUMBER  
SPG-11210 AA

DATE OF JOB  
DECEMBER 21, 1974

GAUGE/RUN NUMBER  
98 DST NO. 29

DATE OF RUN  
JANUARY 20, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,968	656,033	22 51	DEC 21, 1974	
5,984	655,450	22 52	DEC 21, 1974	
6,001	654,868	22 53	DEC 21, 1974	
6,017	654,343	22 54	DEC 21, 1974	
6,034	653,761	22 55	DEC 21, 1974	
6,050	653,295	22 56	DEC 21, 1974	
6,067	652,829	22 57	DEC 21, 1974	
6,084	652,246	22 58	DEC 21, 1974	
6,100	651,722	22 59	DEC 21, 1974	
6,117	651,314	23 00	DEC 21, 1974	
6,133	650,848	23 01	DEC 21, 1974	END OF TEST

II B-1325

371 POINTS REPORTED THIS RUN





JOHNSTON

Schlumberger

technical  
report

II B-1326

F.R. #09114 C



## EQUIPMENT &amp; HOLE DATA

Type Test	M. F. E. OPEN HOLE		
Formation Tested	GREEN RIVER		
Elevation	7036		Ft.
Net Productive Interval	51		Ft.
Estimated Porosity	-		%
All Depths Measured From	GROUND LEVEL		
Total Depth	1920		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	298'	I.D. -	
Drill Pipe Length	1537'	I.D. -	
Packer Depth(s)	1865' & 1869'		Ft.

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface  
 Recovery: Cu. Ft. Gas \_\_\_\_\_  
           cc. Oil \_\_\_\_\_  
           cc. Water \_\_\_\_\_  
           cc. Mud \_\_\_\_\_  
           Tot. Liquid cc. \_\_\_\_\_  
 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm

Mud Type	WATER - FOAM	Wt.	-
Viscosity	-	Water Loss	- C.C.
Resist. of Mud	- @ - °F; of Filtrate	- @ -	°F
Chloride Content	-		PPM

[illegible]

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY  
Well FEDERAL S. G. #17 Location 436' FWL & 181' FSL SEC. 16-35-90W  
Test Interval 1869' TO 1920' Test # 30 Date 12-28-74  
County RIO BLANCO State COLORADO II B-1327  
Technician TAYLOR (VERNAL) Test Approved By MR. MARK WILKERSON  
Field Report No. 09114 C  
No. Reports Requested 14 (13x)



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT# 4372 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 32342 N</u> <u>PRESSURE (P.S.I.G.)</u>
		(12-28-74)			
INITIAL HYDROSTATIC	1	-	-	607.8	623.4
PACKER SEAT	2	-	-	611.8	624.8
TOOL OPENED	3	2103	0	103.5	107.7
CLOSED FOR INITIAL SHUT-IN	4	2105	2	103.5	370.9
			4	579.9	589.6
			6	587.9	600.8
			8	589.2	602.3
			10	590.5	603.7
			12	590.5	603.7
			14	590.5	605.1
			16	590.5	605.1
			18	590.5	605.1
			20	590.5	605.1
			22	590.5	605.1
			24	590.5	605.1
			26	590.5	605.1
			28	590.5	605.1
			30	590.5	605.1
			32	590.5	605.1
INITIAL SHUT-IN	5	2136	33	590.5	605.1
			34	590.5	606.5
TOOL CYCLED	6	2138	35	590.5	606.5
INITIAL FLOW-TOOL OPENED	7	2139	36	329.7	416.1
			38	472.1	506.3
			40	525.3	554.3
			42	566.6	585.3
			44	582.5	596.6
			46	586.5	600.8
			48	587.9	602.3
			50	589.2	602.3
			52	589.2	603.7
			54	590.5	603.7
			56	590.5	603.7
			58	590.5	603.7
			60	590.5	603.7
			62	590.5	603.7
			64	590.5	603.7
			66	590.5	605.1
			68	590.5	605.1
			70	590.5	605.1
			72	590.5	605.1
			74	590.5	605.1
			76	590.5	605.1
			78	590.5	605.1
			80	590.5	605.1
			82	590.5	605.1
			84	590.5	605.1
			86	590.5	605.1
			88	590.5	605.1
			90	590.5	605.1
			92	590.5	605.1
			94	590.5	605.1
			96	590.5	605.1
			98	590.5	605.1





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT # 4372 N PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 32342 N PRESSURE (P.S.I.G.)</u>
			100	590.5	605.1
			102	590.5	605.1
			104	590.5	605.1
			106	590.5	605.1
			108	590.5	605.1
			110	590.5	605.1
			112	590.5	605.1
			114	590.5	605.1
			116	590.5	605.1
			118	590.5	605.1
			120	590.5	605.1
			122	590.5	605.1
			124	590.5	605.1
			126	590.5	605.1
			128	590.5	605.1
			130	590.5	605.1
			132	590.5	605.1
			134	590.5	605.1
			136	590.5	605.1
			138	590.5	605.1
			140	590.5	605.1
			142	590.5	605.1
			144	590.5	605.1
			146	590.5	605.1
			148	590.5	605.1
			150	590.5	605.1
			152	590.5	605.1
			154	590.5	605.1
			156	590.5	605.1
			158	590.5	605.1
			160	590.5	605.1
			162	590.5	605.1
			164	590.5	605.1
			166	590.5	605.1
STARTED JETTING WATER	8	2350	167	590.5	605.1
			168	599.8	607.9
PRESSURE INCREASE DUE TO JETTING	9	2352	169	611.8	622.0
			170	577.2	602.3
PRESSURE DECREASE DUE TO JETTING	10		171	567.9	556.7
			172	570.9	593.3
			174	579.9	593.8
			176	579.9	593.3
			178	579.9	593.8
			180	570.9	593.8
			182	579.9	593.8
			184	579.9	593.8
			186	579.9	593.8
			188	578.5	593.8
			190	578.5	593.8
			192	578.5	593.8
			194	578.5	593.8
			196	578.5	593.8
			198	578.5	593.8



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT# 4372 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 32342 N</u> <u>PRESSURE (P.S.I.G.)</u>
			200	578.5	593.8
			202	578.5	593.8
			204	578.5	593.8
			206	578.5	593.8
			208	578.5	593.8
			210	578.5	593.8
			212	578.5	593.8
			214	578.5	593.8
			216	578.5	592.4
			218	578.5	592.4
			220	578.5	592.4
			222	578.5	592.4
			224	578.5	592.4
			226	577.2	591.0
			228	577.2	592.4
			230	577.2	592.4
			232	577.2	592.4
			234	577.2	592.4
			236	577.2	592.4
			238	577.2	592.4
		(12-29-74)			
JETTING WATER	11	0102	239	577.2	592.4
			240	563.9	573.3
FINISHED JETTING WATER	12	0104	241	547.9	563.4
			242	579.9	593.8
			244	587.9	600.8
			246	589.2	602.3
			248	589.2	602.3
			250	589.2	602.3
			252	589.2	602.3
			254	589.2	602.3
			256	589.2	602.3
			258	589.2	602.3
			260	590.5	602.3
			262	590.5	602.3
			264	590.5	603.7
			266	590.5	603.7
			268	590.5	603.7
			270	590.5	603.7
			272	590.5	603.7
			274	590.5	603.7
			276	590.5	603.7
			278	590.5	603.7
			280	590.5	603.7
			282	590.5	603.7
			284	590.5	603.7
			286	590.5	603.7
			288	590.5	603.7
			290	590.5	603.7
			292	590.5	603.7
			294	591.8	603.7
			296	591.8	603.7
			298	591.8	603.7
			300	591.8	603.7





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT # 4372 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT # 32342 N</u> <u>PRESSURE (P.S.I.G.)</u>
			302	591.8	603.7
			304	591.8	603.7
			306	591.8	603.7
			308	591.8	603.7
			310	591.8	603.7
			312	591.8	603.7
			314	591.8	603.7
			316	591.8	603.7
			318	591.8	603.7
			320	591.8	603.7
			322	591.8	603.7
			324	591.8	603.7
			326	591.8	603.7
			328	591.8	603.7
			330	591.8	603.7
			332	591.8	603.7
			334	591.8	603.7
			336	591.8	603.7
			338	591.8	603.7
			340	591.8	603.7
			342	591.8	603.7
			344	591.8	603.7
			346	591.8	603.7
			348	591.8	603.7
			350	591.8	603.7
			352	591.8	603.7
STARTED INJECTION 2 GAL/MIN.			354	591.8	603.7
			356	591.8	603.7
			358	593.2	605.1
			360	593.2	605.1
			362	593.2	605.1
			364	593.2	606.5
			366	593.2	606.5
			368	594.5	606.5
			370	594.5	606.5
			372	594.5	606.5
			374	594.5	606.5
STARTED 5 GAL/MIN. RATE	13	0318	375	594.5	606.5
			376	595.8	607.9
			378	597.2	609.3
			380	597.2	609.3
			382	597.2	609.3
			384	597.2	609.3
			386	597.2	609.3
			388	597.2	609.3
			390	597.2	609.3
			392	597.2	609.3
			394	597.2	609.3
STARTED 11 GAL/MIN. RATE	14	0338	395	597.2	609.3
			396	603.8	613.5
			398	606.5	617.8
			400	607.8	619.2
		II B-1331	402	609.1	619.2
			404	609.1	620.6
			406	609.1	620.6



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT # 4372 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT # 32342 N</u> <u>PRESSURE (P.S.I.G.)</u>
STARTED 20 GAL/MIN. RATE 15		0357	408	610.5	620.6
			410	610.5	620.6
			412	610.5	620.6
			414	610.5	620.6
			416	623.8	631.9
			418	629.1	637.5
			420	634.4	643.2
			422	638.4	647.4
			424	641.1	648.8
			426	643.7	651.6
			428	647.7	655.8
			430	651.7	658.7
			432	655.7	662.9
STARTED 30 GAL/MIN. RATE 16		0417	434	661.0	665.7
			436	683.7	689.7
			438	697.0	701.0
			440	706.3	713.7
			442	719.6	722.1
			444	724.9	727.3
			446	728.9	732.0
			448	736.9	740.5
			450	744.9	747.5
			452	751.5	753.2
FINISHED INJECTION - STARTED PRESSURE FALL OFF	17	0437	454	756.8	758.8
			456	707.6	717.9
			458	661.0	677.0
			460	635.8	651.6
			462	618.5	633.3
			464	607.8	622.0
			466	602.5	616.4
			468	599.3	612.1
			470	598.5	610.7
			472	597.2	609.3
			474	597.2	609.3
			476	597.2	609.3
			478	597.2	609.3
			480	597.2	609.3
			482	595.3	607.9
			484	595.8	607.9
			486	595.8	607.9
			488	595.8	607.9
			490	595.8	607.9
			492	595.8	607.9
			494	595.8	606.5
			496	594.5	606.5
			498	594.5	606.5
CLOSED TOOL	18	0525	500	594.5	606.5
			502	595.8	607.9
			504	595.8	607.9
			506	595.8	607.9
			508	595.8	607.9
PULLED PACKER LOOSE	19	0531	-	579.9	593.8
FINAL HYDROSTATIC	20	-	-	-	-



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT# 4372 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 32342 N</u> <u>PRESSURE (P.S.I.G.)</u>
CAPACITY (P.S.I.G.)				2800	2800
INSTRUMENT DEPTH				1845'	1873'
INSTRUMENT OPENING				INSIDE	OUTSIDE

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION  
BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

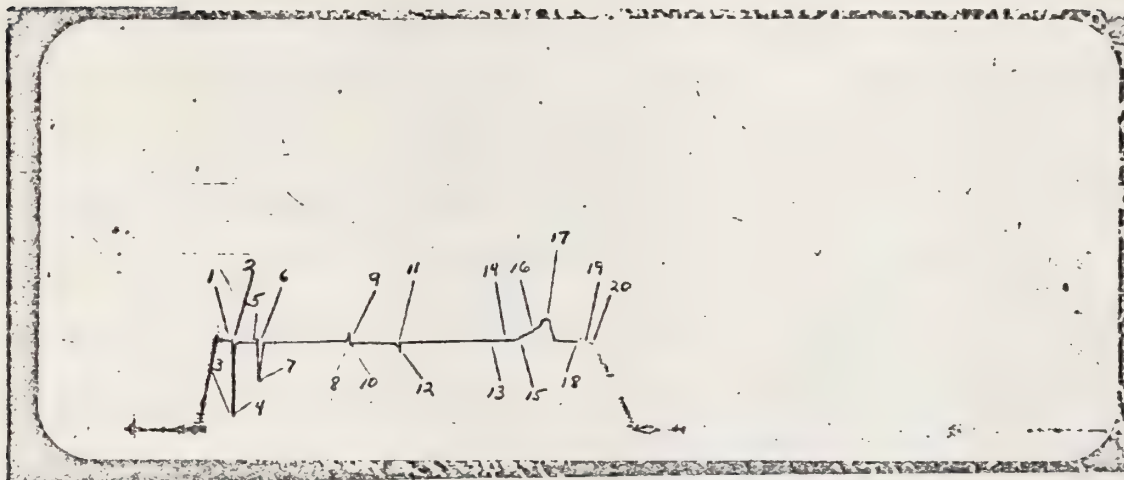






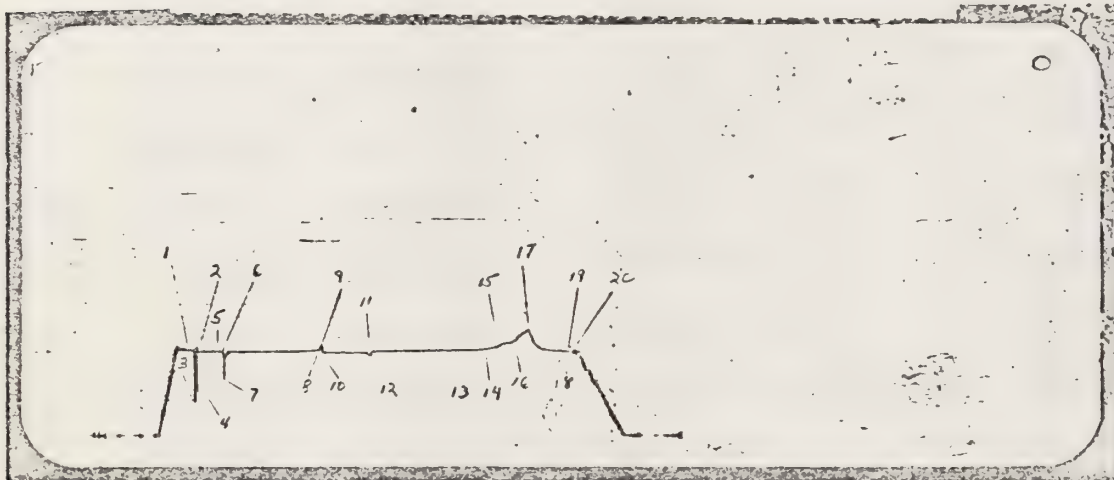
FIELD REPORT NO.  
09114 C  
CAPACITY  
2800#

RECORDER NO.  
4372 N  
REPORTS REQUESTED  
14 +



FIELD REPORT NO.  
09114 C  
CAPACITY  
2800#

RECORDER NO.  
32342 N  
REPORTS REQUESTED  
14 +





## PRESSURE GAUGE DRILLSTEM TEST SHEET

307/235-5757

Job No. SPG 1121088 Date 12/28/74 Run DST #30 Office Casper, WyomingCustomer Arco ET AL Location \_\_\_\_\_State Colorado County/Parish Rio BlancoWell Sorghum Gulch No. 17 Field \_\_\_\_\_

## USE MILITARY TIME FOR ALL TIMES

Arrive: Well/Dock 1. 1100 12/28/74 2. \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_ Time Charged \_\_\_\_\_Depart: Well/Dock 1. 0900 12/29/74 2. \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_ 22 Hrs.Gauge Start in Hole 1. 1834 12/28/74 2. \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_Gauge Out of Hole 1. 0816 12/29/74 2. \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_ 14 Hrs.No. Trips ONE Miles 90 Total Mileage 90Top Gauge # 197 Element # 35991 Range 1400 Time Mode 1 minBtm. Gauge # 98 Element # 29001N Range 2500 Time Mode 1 minType Tool DST Test Depth 1869' to 1920' Zero Point Ground levelPacker Depth 1869' Tail Pipe Depth 1920' Top Gauge Depth 1828'Bottom Hole Temp. 96° F Atmos. Temp. 21° F Bottom Gauge Depth 1880'

## TIME INFORMATION

Time Date

On Bottom 2059 12/28/74Packer Set 2059 12/28/74Initial Open 2102 12/28/74Initial Shut-In 2105 12/28/74Start Flow 2138 12/28/74Final Shut-In 0522 12/29/74Packer Unseated 0531 12/29/74

## PRESSURE INFORMATION

Initial Hydrostatic Head 602

Initial Draw Down \_\_\_\_\_

Initial Build-Up 602Final Flow 43

Final Build-Up \_\_\_\_\_

Final Hydrostatic Head 602

Mud Weight \_\_\_\_\_

## TIME OF SURFACE NULLS

Top Gauge 1834 1835 1836 Bottom Gauge 1842 1843 1844Remarks Drill Stem Test in water. drilling fluid seap  
AND WATER NOT MUD.





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT S-G SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 197 WITH 1400 LB. ELEMENT  
GAUGE DEPTH IS 1828 FT. OUTSIDE DRILL PIPE  
ABOVE PACKER  
TEST INTERVAL SURFACE TO 1828 FT.  
PACKER DEPTH 1869 FT.  
INITIAL HYDROSTATIC IS 603.424 PSI  
FINAL HYDROSTATIC IS 603.424 PSI,

II B-1336

494 POINTS REPORTED THIS JOB

PAGE 1 OF 14 PAGES



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO, 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	603,768	21 06	DEC 28,1974	INITIAL SHUTIN
,017	603,830	21 07	DEC 28,1974	
,033	604,018	21 08	DEC 28,1974	
,050	604,143	21 09	DEC 28,1974	
,067	604,268	21 10	DEC 28,1974	
,083	604,362	21 11	DEC 28,1974	
,100	604,456	21 12	DEC 28,1974	
,117	604,487	21 13	DEC 28,1974	
,133	604,518	21 14	DEC 28,1974	
,150	604,612	21 15	DEC 28,1974	
,167	604,612	21 16	DEC 28,1974	
,183	604,643	21 17	DEC 28,1974	
,200	604,706	21 18	DEC 28,1974	
,217	604,768	21 19	DEC 28,1974	
,233	604,768	21 20	DEC 28,1974	
,250	604,768	21 21	DEC 28,1974	
,267	604,800	21 22	DEC 28,1974	
,283	604,831	21 23	DEC 28,1974	
,300	604,831	21 24	DEC 28,1974	
,317	604,862	21 25	DEC 28,1974	
,333	604,925	21 26	DEC 28,1974	
,350	604,893	21 27	DEC 28,1974	
,367	604,925	21 28	DEC 28,1974	
,383	604,925	21 29	DEC 28,1974	
,400	604,956	21 30	DEC 28,1974	
,417	604,956	21 31	DEC 28,1974	
,433	604,956	21 32	DEC 28,1974	
,450	604,956	21 33	DEC 28,1974	
,467	604,987	21 34	DEC 28,1974	END SHUT IN

II B-1337

29 POINTS REPORTED THIS RUN



JOB NUMBER  
8PG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	604.925	21 38	DEC 28, 1974	OPEN TO FLOW
.017	605.112	21 39	DEC 28, 1974	
.033	605.144	21 40	DEC 28, 1974	
.050	605.175	21 41	DEC 28, 1974	
.067	605.206	21 42	DEC 28, 1974	
.083	605.206	21 43	DEC 28, 1974	
.100	605.206	21 44	DEC 28, 1974	
.117	605.237	21 45	DEC 28, 1974	
.133	605.206	21 46	DEC 28, 1974	
.150	605.237	21 47	DEC 28, 1974	
.167	605.237	21 48	DEC 28, 1974	
.183	605.269	21 49	DEC 28, 1974	
.200	605.237	21 50	DEC 28, 1974	
.217	605.269	21 51	DEC 28, 1974	
.233	605.300	21 52	DEC 28, 1974	
.250	605.300	21 53	DEC 28, 1974	
.267	605.269	21 54	DEC 28, 1974	
.283	605.269	21 55	DEC 28, 1974	
.300	605.331	21 56	DEC 28, 1974	
.317	605.331	21 57	DEC 28, 1974	
.333	605.300	21 58	DEC 28, 1974	
.350	605.331	21 59	DEC 28, 1974	
.367	605.362	22 00	DEC 28, 1974	
.383	605.362	22 01	DEC 28, 1974	
.400	605.362	22 02	DEC 28, 1974	
.417	605.362	22 03	DEC 28, 1974	
.433	605.394	22 04	DEC 28, 1974	
.450	605.394	22 05	DEC 28, 1974	
.467	605.394	22 06	DEC 28, 1974	
.483	605.425	22 07	DEC 28, 1974	
.500	605.425	22 08	DEC 28, 1974	
.517	605.488	22 09	DEC 28, 1974	
.533	605.425	22 10	DEC 28, 1974	END RECOVERY
.550	605.456	22 11	DEC 28, 1974	
.567	605.456	22 12	DEC 28, 1974	
.583	605.488	22 13	DEC 28, 1974	
.600	605.456	22 14	DEC 28, 1974	
.617	605.488	22 15	DEC 28, 1974	
.633	605.519	22 16	DEC 28, 1974	
.650	605.488	22 17	DEC 28, 1974	





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	605,488	22 18	DEC 28,1974	
.683	605,488	22 19	DEC 28,1974	
.700	605,519	22 20	DEC 28,1974	
.717	605,550	22 21	DEC 28,1974	
.733	605,550	22 22	DEC 28,1974	
.750	605,550	22 23	DEC 28,1974	
.767	605,550	22 24	DEC 28,1974	
.783	605,550	22 25	DEC 28,1974	
.800	605,581	22 26	DEC 28,1974	
.817	605,550	22 27	DEC 28,1974	
.833	605,613	22 28	DEC 28,1974	
.850	605,581	22 29	DEC 28,1974	
.867	605,581	22 30	DEC 28,1974	
.883	605,581	22 31	DEC 28,1974	
.900	605,613	22 32	DEC 28,1974	
.917	605,581	22 33	DEC 28,1974	
.933	605,613	22 34	DEC 28,1974	
.950	605,644	22 35	DEC 28,1974	
.967	605,675	22 36	DEC 28,1974	
.983	605,675	22 37	DEC 28,1974	
1.000	605,675	22 38	DEC 28,1974	
1.017	605,675	22 39	DEC 28,1974	
1.033	605,675	22 40	DEC 28,1974	
1.050	605,675	22 41	DEC 28,1974	
1.067	605,706	22 42	DEC 28,1974	
1.083	605,706	22 43	DEC 28,1974	
1.100	605,706	22 44	DEC 28,1974	
1.117	605,675	22 45	DEC 28,1974	
1.133	605,675	22 46	DEC 28,1974	
1.150	605,738	22 47	DEC 28,1974	
1.167	605,738	22 48	DEC 28,1974	
1.183	605,738	22 49	DEC 28,1974	
1.200	605,738	22 50	DEC 28,1974	
1.217	605,769	22 51	DEC 28,1974	
1.233	605,738	22 52	DEC 28,1974	
1.250	605,769	22 53	DEC 28,1974	
1.267	605,769	22 54	DEC 28,1974	
1.283	605,738	22 55	DEC 28,1974	
1.300	605,800	22 56	DEC 28,1974	
1.317	605,769	22 57	DEC 28,1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	605,738	22 58	DEC 28, 1974	
1,350	605,800	22 59	DEC 28, 1974	
1,367	605,831	23 00	DEC 28, 1974	
1,383	605,831	23 01	DEC 28, 1974	
1,400	605,831	23 02	DEC 28, 1974	
1,417	605,831	23 03	DEC 28, 1974	
1,433	605,831	23 04	DEC 28, 1974	
1,450	605,831	23 05	DEC 28, 1974	
1,467	605,831	23 06	DEC 28, 1974	
1,483	605,831	23 07	DEC 28, 1974	
1,500	605,831	23 08	DEC 28, 1974	
1,517	605,831	23 09	DEC 28, 1974	
1,533	605,831	23 10	DEC 28, 1974	
1,550	605,925	23 11	DEC 28, 1974	
1,567	605,863	23 12	DEC 28, 1974	
1,583	605,894	23 13	DEC 28, 1974	
1,600	605,894	23 14	DEC 28, 1974	
1,617	605,894	23 15	DEC 28, 1974	
1,633	605,894	23 16	DEC 28, 1974	
1,650	605,957	23 17	DEC 28, 1974	
1,667	605,957	23 18	DEC 28, 1974	
1,683	605,925	23 19	DEC 28, 1974	
1,700	605,957	23 20	DEC 28, 1974	
1,717	605,957	23 21	DEC 28, 1974	
1,733	605,957	23 22	DEC 28, 1974	
1,750	605,957	23 23	DEC 28, 1974	
1,767	606,019	23 24	DEC 28, 1974	
1,783	605,988	23 25	DEC 28, 1974	
1,800	605,988	23 26	DEC 28, 1974	
1,817	605,957	23 27	DEC 28, 1974	
1,833	605,988	23 28	DEC 28, 1974	
1,850	606,019	23 29	DEC 28, 1974	
1,867	605,988	23 30	DEC 28, 1974	
1,883	606,019	23 31	DEC 28, 1974	
1,900	606,019	23 32	DEC 28, 1974	
1,917	606,082	23 33	DEC 28, 1974	
1,933	606,050	23 34	DEC 28, 1974	
1,950	606,050	23 35	DEC 28, 1974	
1,967	606,050	23 36	DEC 28, 1974	
1,983	606,019	23 37	DEC 28, 1974	





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,000	606,050	23 38	DEC 28, 1974	
2,017	606,050	23 39	DEC 28, 1974	
2,033	606,082	23 40	DEC 28, 1974	
2,050	606,082	23 41	DEC 28, 1974	
2,067	606,082	23 42	DEC 28, 1974	
2,083	606,082	23 43	DEC 28, 1974	
2,100	606,082	23 44	DEC 28, 1974	
2,117	606,113	23 45	DEC 28, 1974	
2,133	606,082	23 46	DEC 28, 1974	
2,150	606,144	23 47	DEC 28, 1974	
2,167	606,113	23 48	DEC 28, 1974	
2,183	606,144	23 49	DEC 28, 1974	
2,200	606,144	23 50	DEC 28, 1974	START AIR JET
2,217	606,175	23 51	DEC 28, 1974	DOWN DRILLPIPE
2,233	606,175	23 52	DEC 28, 1974	
2,250	606,144	23 53	DEC 28, 1974	
2,267	606,144	23 54	DEC 28, 1974	
2,283	606,144	23 55	DEC 28, 1974	
2,300	606,144	23 56	DEC 28, 1974	
2,317	606,207	23 57	DEC 28, 1974	
2,333	606,207	23 58	DEC 28, 1974	
2,350	606,175	23 59	DEC 28, 1974	
2,367	606,175	00 00	DEC 29, 1974	
2,383	606,207	00 01	DEC 29, 1974	
2,400	606,207	00 02	DEC 29, 1974	
2,417	606,175	00 03	DEC 29, 1974	
2,433	606,207	00 04	DEC 29, 1974	
2,450	606,207	00 05	DEC 29, 1974	
2,467	606,238	00 06	DEC 29, 1974	
2,483	606,238	00 07	DEC 29, 1974	
2,500	606,238	00 08	DEC 29, 1974	
2,517	606,269	00 09	DEC 29, 1974	
2,533	606,207	00 10	DEC 29, 1974	
2,550	606,207	00 11	DEC 29, 1974	
2,567	606,207	00 12	DEC 29, 1974	
2,583	606,207	00 13	DEC 29, 1974	
2,600	606,238	00 14	DEC 29, 1974	
2,617	606,238	00 15	DEC 29, 1974	
2,633	606,269	00 16	DEC 29, 1974	
2,650	606,300	00 17	DEC 29, 1974	



JOB NUMBER  
SPG-11210-88

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	606,300	00 18	DEC 29,1974	
2,683	606,300	00 19	DEC 29,1974	
2,700	606,238	00 20	DEC 29,1974	
2,717	606,269	00 21	DEC 29,1974	
2,733	606,300	00 22	DEC 29,1974	
2,750	606,300	00 23	DEC 29,1974	
2,767	606,300	00 24	DEC 29,1974	
2,783	606,269	00 25	DEC 29,1974	
2,800	606,269	00 26	DEC 29,1974	
2,817	606,269	00 27	DEC 29,1974	
2,833	606,269	00 28	DEC 29,1974	
2,850	606,300	00 29	DEC 29,1974	
2,867	606,363	00 30	DEC 29,1974	
2,883	606,332	00 31	DEC 29,1974	
2,900	606,332	00 32	DEC 29,1974	
2,917	606,363	00 33	DEC 29,1974	
2,933	606,300	00 34	DEC 29,1974	
2,950	606,332	00 35	DEC 29,1974	
2,967	606,363	00 36	DEC 29,1974	
2,983	606,363	00 37	DEC 29,1974	
3,000	606,332	00 38	DEC 29,1974	
3,017	606,332	00 39	DEC 29,1974	
3,033	606,363	00 40	DEC 29,1974	
3,050	606,394	00 41	DEC 29,1974	
3,067	606,363	00 42	DEC 29,1974	
3,083	606,332	00 43	DEC 29,1974	
3,100	606,363	00 44	DEC 29,1974	
3,117	606,394	00 45	DEC 29,1974	
3,133	606,394	00 46	DEC 29,1974	
3,150	606,363	00 47	DEC 29,1974	
3,167	606,394	00 48	DEC 29,1974	
3,183	606,394	00 49	DEC 29,1974	
3,200	606,394	00 50	DEC 29,1974	
3,217	606,426	00 51	DEC 29,1974	
3,233	606,426	00 52	DEC 29,1974	
3,250	606,426	00 53	DEC 29,1974	
3,267	606,394	00 54	DEC 29,1974	
3,283	606,426	00 55	DEC 29,1974	
3,300	606,426	00 56	DEC 29,1974	
3,317	606,426	00 57	DEC 29,1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,333	606,426	00 58	DEC 29, 1974	
3,350	606,394	00 59	DEC 29, 1974	
3,367	606,457	01 00	DEC 29, 1974	END JETTING
3,383	606,457	01 01	DEC 29, 1974	DOWN DRILLPIPE
3,400	606,457	01 02	DEC 29, 1974	
3,417	606,457	01 03	DEC 29, 1974	
3,433	606,488	01 04	DEC 29, 1974	
3,450	606,457	01 05	DEC 29, 1974	
3,467	606,488	01 06	DEC 29, 1974	
3,483	606,488	01 07	DEC 29, 1974	
3,500	606,457	01 08	DEC 29, 1974	
3,517	606,488	01 09	DEC 29, 1974	
3,533	606,488	01 10	DEC 29, 1974	
3,550	606,519	01 11	DEC 29, 1974	
3,567	606,488	01 12	DEC 29, 1974	
3,583	606,519	01 13	DEC 29, 1974	
3,600	606,488	01 14	DEC 29, 1974	
3,617	606,519	01 15	DEC 29, 1974	
3,633	606,519	01 16	DEC 29, 1974	
3,650	606,551	01 17	DEC 29, 1974	
3,667	606,551	01 18	DEC 29, 1974	
3,683	606,519	01 19	DEC 29, 1974	
3,700	606,551	01 20	DEC 29, 1974	
3,717	606,551	01 21	DEC 29, 1974	
3,733	606,551	01 22	DEC 29, 1974	
3,750	606,551	01 23	DEC 29, 1974	
3,767	606,582	01 24	DEC 29, 1974	
3,783	606,551	01 25	DEC 29, 1974	
3,800	606,551	01 26	DEC 29, 1974	
3,817	606,551	01 27	DEC 29, 1974	
3,833	606,613	01 28	DEC 29, 1974	
3,850	606,582	01 29	DEC 29, 1974	
3,867	606,551	01 30	DEC 29, 1974	
3,883	606,551	01 31	DEC 29, 1974	
3,900	606,582	01 32	DEC 29, 1974	
3,917	606,613	01 33	DEC 29, 1974	
3,933	606,582	01 34	DEC 29, 1974	
3,950	606,582	01 35	DEC 29, 1974	
3,967	606,644	01 36	DEC 29, 1974	
3,983	606,644	01 37	DEC 29, 1974	





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,000	606,613	01 38	DEC 29,1974	
4,017	606,613	01 39	DEC 29,1974	
4,033	606,613	01 40	DEC 29,1974	
4,050	606,644	01 41	DEC 29,1974	
4,067	606,676	01 42	DEC 29,1974	
4,083	606,644	01 43	DEC 29,1974	
4,100	606,676	01 44	DEC 29,1974	
4,117	606,644	01 45	DEC 29,1974	
4,133	606,613	01 46	DEC 29,1974	
4,150	606,676	01 47	DEC 29,1974	
4,167	606,644	01 48	DEC 29,1974	
4,183	606,676	01 49	DEC 29,1974	
4,200	606,707	01 50	DEC 29,1974	
4,217	606,644	01 51	DEC 29,1974	
4,233	606,676	01 52	DEC 29,1974	
4,250	606,676	01 53	DEC 29,1974	
4,267	606,707	01 54	DEC 29,1974	
4,283	606,676	01 55	DEC 29,1974	
4,300	606,707	01 56	DEC 29,1974	
4,317	606,676	01 57	DEC 29,1974	
4,333	606,676	01 58	DEC 29,1974	
4,350	606,707	01 59	DEC 29,1974	
4,367	606,738	02 00	DEC 29,1974	
4,383	606,769	02 01	DEC 29,1974	
4,400	606,769	02 02	DEC 29,1974	
4,417	606,707	02 03	DEC 29,1974	
4,433	606,738	02 04	DEC 29,1974	
4,450	606,769	02 05	DEC 29,1974	
4,467	606,769	02 06	DEC 29,1974	
4,483	606,707	02 07	DEC 29,1974	60 GPM DOWN ANNULUS
4,500	606,894	02 08	DEC 29,1974	
4,517	609,208	02 09	DEC 29,1974	
4,533	612,147	02 10	DEC 29,1974	
4,550	614,680	02 11	DEC 29,1974	
4,567	616,868	02 12	DEC 29,1974	
4,583	618,525	02 13	DEC 29,1974	
4,600	619,964	02 14	DEC 29,1974	
4,617	621,214	02 15	DEC 29,1974	
4,633	622,402	02 16	DEC 29,1974	
4,650	623,559	02 17	DEC 29,1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,667	624,560	02 18	DEC 29, 1974	
4,683	625,404	02 19	DEC 29, 1974	
4,700	626,217	02 20	DEC 29, 1974	
4,717	626,873	02 21	DEC 29, 1974	
4,733	627,561	02 22	DEC 29, 1974	
4,750	628,093	02 23	DEC 29, 1974	
4,767	628,562	02 24	DEC 29, 1974	
4,783	629,093	02 25	DEC 29, 1974	
4,800	629,437	02 26	DEC 29, 1974	
4,817	629,812	02 27	DEC 29, 1974	
4,833	630,156	02 28	DEC 29, 1974	
4,850	630,500	02 29	DEC 29, 1974	
4,867	630,813	02 30	DEC 29, 1974	
4,883	631,032	02 31	DEC 29, 1974	
4,900	631,344	02 32	DEC 29, 1974	
4,917	631,626	02 33	DEC 29, 1974	
4,933	631,688	02 34	DEC 29, 1974	
4,950	631,938	02 35	DEC 29, 1974	
4,967	632,032	02 36	DEC 29, 1974	
4,983	632,063	02 37	DEC 29, 1974	
5,000	632,282	02 38	DEC 29, 1974	
5,017	632,626	02 39	DEC 29, 1974	
5,033	632,845	02 40	DEC 29, 1974	
5,050	633,127	02 41	DEC 29, 1974	
5,067	633,408	02 42	DEC 29, 1974	START DECLINE
5,083	633,127	02 43	DEC 29, 1974	
5,100	630,281	02 44	DEC 29, 1974	
5,117	627,374	02 45	DEC 29, 1974	
5,133	624,872	02 46	DEC 29, 1974	
5,150	622,684	02 47	DEC 29, 1974	
5,167	620,558	02 48	DEC 29, 1974	
5,183	618,744	02 49	DEC 29, 1974	
5,200	617,275	02 50	DEC 29, 1974	
5,217	615,962	02 51	DEC 29, 1974	
5,233	614,899	02 52	DEC 29, 1974	
5,250	614,023	02 53	DEC 29, 1974	
5,267	613,241	02 54	DEC 29, 1974	
5,283	612,554	02 55	DEC 29, 1974	
5,300	611,928	02 56	DEC 29, 1974	2 GPM DOWN
5,317	611,428	02 57	DEC 29, 1974	DRILL PIPE





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,333	610,959	02 58	DEC 29,1974	
5,350	610,553	02 59	DEC 29,1974	
5,367	609,927	03 00	DEC 29,1974	
5,383	609,677	03 01	DEC 29,1974	
5,400	609,458	03 02	DEC 29,1974	
5,417	609,177	03 03	DEC 29,1974	
5,433	609,083	03 04	DEC 29,1974	
5,450	608,864	03 05	DEC 29,1974	
5,467	608,739	03 06	DEC 29,1974	
5,483	608,552	03 07	DEC 29,1974	
5,500	608,458	03 08	DEC 29,1974	
5,517	608,333	03 09	DEC 29,1974	
5,533	608,239	03 10	DEC 29,1974	
5,550	608,145	03 11	DEC 29,1974	
5,567	608,051	03 12	DEC 29,1974	
5,583	607,989	03 13	DEC 29,1974	
5,600	607,958	03 14	DEC 29,1974	
5,617	607,864	03 15	DEC 29,1974	
5,633	607,832	03 16	DEC 29,1974	5 GPM DOWN
5,650	607,770	03 17	DEC 29,1974	DRILL PIPE
5,667	607,801	03 18	DEC 29,1974	
5,683	607,739	03 19	DEC 29,1974	
5,700	607,676	03 20	DEC 29,1974	
5,717	607,645	03 21	DEC 29,1974	
5,733	607,645	03 22	DEC 29,1974	
5,750	607,582	03 23	DEC 29,1974	
5,767	607,551	03 24	DEC 29,1974	
5,783	607,520	03 25	DEC 29,1974	
5,800	607,520	03 26	DEC 29,1974	
5,817	607,426	03 27	DEC 29,1974	
5,833	607,426	03 28	DEC 29,1974	
5,850	607,457	03 29	DEC 29,1974	
5,867	607,489	03 30	DEC 29,1974	
5,883	607,426	03 31	DEC 29,1974	
5,900	607,426	03 32	DEC 29,1974	
5,917	607,395	03 33	DEC 29,1974	
5,933	607,426	03 34	DEC 29,1974	
5,950	607,363	03 35	DEC 29,1974	
5,967	607,426	03 36	DEC 29,1974	11 GPM DOWN
5,983	607,363	03 37	DEC 29,1974	DRILL PIPE



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,000	607,363	03 38	DEC 29,1974	
6,017	607,363	03 39	DEC 29,1974	
6,033	607,363	03 40	DEC 29,1974	
6,050	607,363	03 41	DEC 29,1974	
6,067	607,332	03 42	DEC 29,1974	
6,083	607,332	03 43	DEC 29,1974	
6,100	607,363	03 44	DEC 29,1974	
6,117	607,301	03 45	DEC 29,1974	
6,133	607,332	03 46	DEC 29,1974	
6,150	607,301	03 47	DEC 29,1974	
6,167	607,301	03 48	DEC 29,1974	
6,183	607,301	03 49	DEC 29,1974	
6,200	607,301	03 50	DEC 29,1974	
6,217	607,301	03 51	DEC 29,1974	
6,233	607,301	03 52	DEC 29,1974	
6,250	607,301	03 53	DEC 29,1974	
6,267	607,332	03 54	DEC 29,1974	
6,283	607,332	03 55	DEC 29,1974	
6,300	607,332	03 56	DEC 29,1974	20 GPM DOWN
6,317	607,301	03 57	DEC 29,1974	DRILL PIPE
6,333	607,332	03 58	DEC 29,1974	
6,350	607,363	03 59	DEC 29,1974	
6,367	607,332	04 00	DEC 29,1974	
6,383	607,332	04 01	DEC 29,1974	
6,400	607,332	04 02	DEC 29,1974	
6,417	607,332	04 03	DEC 29,1974	
6,433	607,363	04 04	DEC 29,1974	
6,450	607,332	04 05	DEC 29,1974	
6,467	607,301	04 06	DEC 29,1974	
6,483	607,363	04 07	DEC 29,1974	
6,500	607,332	04 08	DEC 29,1974	
6,517	607,363	04 09	DEC 29,1974	
6,533	607,332	04 10	DEC 29,1974	
6,550	607,332	04 11	DEC 29,1974	
6,567	607,332	04 12	DEC 29,1974	
6,583	607,363	04 13	DEC 29,1974	
6,600	607,363	04 14	DEC 29,1974	
6,617	607,395	04 15	DEC 29,1974	
6,633	607,426	04 16	DEC 29,1974	30 GPM DOWN
6,650	607,363	04 17	DEC 29,1974	DRILL PIPE



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,667	607,363	04 18	DEC 29,1974	
6,683	607,363	04 19	DEC 29,1974	
6,700	607,363	04 20	DEC 29,1974	
6,717	607,395	04 21	DEC 29,1974	
6,733	607,395	04 22	DEC 29,1974	
6,750	607,426	04 23	DEC 29,1974	
6,767	607,457	04 24	DEC 29,1974	
6,783	607,426	04 25	DEC 29,1974	
6,800	607,395	04 26	DEC 29,1974	
6,817	607,489	04 27	DEC 29,1974	
6,833	607,426	04 28	DEC 29,1974	
6,850	607,489	04 29	DEC 29,1974	
6,867	607,457	04 30	DEC 29,1974	
6,883	607,520	04 31	DEC 29,1974	OVER FLOW
6,900	607,520	04 32	DEC 29,1974	30 GPM
6,917	607,520	04 33	DEC 29,1974	
6,933	607,489	04 34	DEC 29,1974	
6,950	607,520	04 35	DEC 29,1974	END OVERFLOW
6,967	607,520	04 36	DEC 29,1974	
6,983	607,520	04 37	DEC 29,1974	
7,000	607,489	04 38	DEC 29,1974	
7,017	607,520	04 39	DEC 29,1974	
7,033	607,520	04 40	DEC 29,1974	START DECLINE
7,050	607,489	04 41	DEC 29,1974	
7,067	607,457	04 42	DEC 29,1974	
7,083	607,520	04 43	DEC 29,1974	
7,100	607,426	04 44	DEC 29,1974	
7,117	607,457	04 45	DEC 29,1974	
7,133	607,426	04 46	DEC 29,1974	
7,150	607,426	04 47	DEC 29,1974	
7,167	607,489	04 48	DEC 29,1974	
7,183	607,489	04 49	DEC 29,1974	
7,200	607,457	04 50	DEC 29,1974	
7,217	607,426	04 51	DEC 29,1974	
7,233	607,457	04 52	DEC 29,1974	
7,250	607,426	04 53	DEC 29,1974	
7,267	607,426	04 54	DEC 29,1974	
7,283	607,426	04 55	DEC 29,1974	
7,300	607,457	04 56	DEC 29,1974	
7,317	607,457	04 57	DEC 29,1974	





JOB NUMBER  
SPG-11210-88

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
197 DST NO, 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7,333	607,457	04 58	DEC 29,1974	
7,350	607,457	04 59	DEC 29,1974	
7,367	607,457	05 00	DEC 29,1974	
7,383	607,426	05 01	DEC 29,1974	
7,400	607,426	05 02	DEC 29,1974	
7,417	607,489	05 03	DEC 29,1974	
7,433	607,457	05 04	DEC 29,1974	
7,450	607,426	05 05	DEC 29,1974	
7,467	607,426	05 06	DEC 29,1974	
7,483	607,489	05 07	DEC 29,1974	
7,500	607,489	05 08	DEC 29,1974	
7,517	607,520	05 09	DEC 29,1974	
7,533	607,520	05 10	DEC 29,1974	END DECLINE
7,550	607,489	05 11	DEC 29,1974	
7,567	607,489	05 12	DEC 29,1974	
7,583	607,520	05 13	DEC 29,1974	
7,600	607,520	05 14	DEC 29,1974	
7,617	607,520	05 15	DEC 29,1974	
7,633	607,520	05 16	DEC 29,1974	
7,650	607,582	05 17	DEC 29,1974	
7,667	607,520	05 18	DEC 29,1974	
7,683	607,489	05 19	DEC 29,1974	
7,700	607,489	05 20	DEC 29,1974	
7,717	607,457	05 21	DEC 29,1974	
7,733	607,457	05 22	DEC 29,1974	END OF TEST

II B-1349

465 POINTS REPORTED THIS RUN

PAGE 14



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT S-G SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 98 WITH 2500 LB. ELEMENT  
GAUGE DEPTH IS 1880 FT., INSIDE DRILL PIPE  
BELOW PACKER  
TEST INTERVAL 1869 FT. TO 1880 FT.  
PACKER DEPTH 1869 FT.  
INITIAL HYDROSTATIC IS 637,799 PSI  
FINAL HYDROSTATIC IS 638,614 PSI

II B-1350

494 POINTS REPORTED THIS JOB

PAGE 1 OF 14 PAGES





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	349,483	21 06	DEC 28,1974	INITIAL SHUTIN
,017	569,755	21 07	DEC 28,1974	
,033	588,593	21 08	DEC 28,1974	
,050	607,549	21 09	DEC 28,1974	
,067	611,933	21 10	DEC 28,1974	
,083	614,205	21 11	DEC 28,1974	
,100	615,487	21 12	DEC 28,1974	
,117	616,186	21 13	DEC 28,1974	
,133	616,710	21 14	DEC 28,1974	
,150	617,001	21 15	DEC 28,1974	
,167	617,293	21 16	DEC 28,1974	
,183	617,409	21 17	DEC 28,1974	
,200	617,642	21 18	DEC 28,1974	
,217	617,759	21 19	DEC 28,1974	
,233	617,875	21 20	DEC 28,1974	
,250	617,933	21 21	DEC 28,1974	
,267	617,992	21 22	DEC 28,1974	
,283	618,108	21 23	DEC 28,1974	
,300	618,108	21 24	DEC 28,1974	
,317	618,166	21 25	DEC 28,1974	
,333	618,166	21 26	DEC 28,1974	
,350	618,166	21 27	DEC 28,1974	
,367	618,108	21 28	DEC 28,1974	
,383	618,108	21 29	DEC 28,1974	
,400	618,108	21 30	DEC 28,1974	
,417	618,225	21 31	DEC 28,1974	
,433	618,166	21 32	DEC 28,1974	
,450	618,225	21 33	DEC 28,1974	
,467	618,283	21 34	DEC 28,1974	END SHUT IN

II B-1351

29 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	432,911	21 38	DEC 28,1974	OPEN TO FLOW
,017	506,160	21 39	DEC 28,1974	
,033	539,332	21 40	DEC 28,1974	
,050	583,387	21 41	DEC 28,1974	
,067	596,433	21 42	DEC 28,1974	
,083	604,682	21 43	DEC 28,1974	
,100	609,714	21 44	DEC 28,1974	
,117	612,516	21 45	DEC 28,1974	
,133	614,030	21 46	DEC 28,1974	
,150	614,962	21 47	DEC 28,1974	
,167	615,545	21 48	DEC 28,1974	
,183	616,069	21 49	DEC 28,1974	
,200	616,360	21 50	DEC 28,1974	
,217	616,768	21 51	DEC 28,1974	
,233	616,943	21 52	DEC 28,1974	
,250	617,118	21 53	DEC 28,1974	
,267	617,118	21 54	DEC 28,1974	
,283	617,234	21 55	DEC 28,1974	
,300	617,409	21 56	DEC 28,1974	
,317	617,467	21 57	DEC 28,1974	
,333	617,467	21 58	DEC 28,1974	
,350	617,467	21 59	DEC 28,1974	
,367	617,584	22 00	DEC 28,1974	
,383	617,584	22 01	DEC 28,1974	
,400	617,642	22 02	DEC 28,1974	
,417	617,584	22 03	DEC 28,1974	
,433	617,700	22 04	DEC 28,1974	
,450	617,642	22 05	DEC 28,1974	
,467	617,642	22 06	DEC 28,1974	
,483	617,700	22 07	DEC 28,1974	
,500	617,700	22 08	DEC 28,1974	
,517	617,700	22 09	DEC 28,1974	
,533	617,759	22 10	DEC 28,1974	END RECOVERY
,550	617,700	22 11	DEC 28,1974	
,567	617,875	22 12	DEC 28,1974	
,583	617,759	22 13	DEC 28,1974	
,600	617,817	22 14	DEC 28,1974	
,617	617,817	22 15	DEC 28,1974	
,633	617,642	22 16	DEC 28,1974	
,650	617,759	22 17	DEC 28,1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	617.759	22 18	DEC 28, 1974	
.683	617.875	22 19	DEC 28, 1974	
.700	617.875	22 20	DEC 28, 1974	
.717	617.875	22 21	DEC 28, 1974	
.733	617.817	22 22	DEC 28, 1974	
.750	617.700	22 23	DEC 28, 1974	
.767	617.875	22 24	DEC 28, 1974	
.783	617.933	22 25	DEC 28, 1974	
.800	617.817	22 26	DEC 28, 1974	
.817	617.933	22 27	DEC 28, 1974	
.833	617.817	22 28	DEC 28, 1974	
.850	617.875	22 29	DEC 28, 1974	
.867	617.817	22 30	DEC 28, 1974	
.883	617.875	22 31	DEC 28, 1974	
.900	617.817	22 32	DEC 28, 1974	
.917	617.875	22 33	DEC 28, 1974	
.933	617.875	22 34	DEC 28, 1974	
.950	617.875	22 35	DEC 28, 1974	
.967	617.875	22 36	DEC 28, 1974	
.983	617.817	22 37	DEC 28, 1974	
1.000	617.933	22 38	DEC 28, 1974	
1.017	617.875	22 39	DEC 28, 1974	
1.033	617.700	22 40	DEC 28, 1974	
1.050	617.933	22 41	DEC 28, 1974	
1.067	617.933	22 42	DEC 28, 1974	
1.083	617.875	22 43	DEC 28, 1974	
1.100	617.875	22 44	DEC 28, 1974	
1.117	617.933	22 45	DEC 28, 1974	
1.133	617.875	22 46	DEC 28, 1974	
1.150	617.933	22 47	DEC 28, 1974	
1.167	617.875	22 48	DEC 28, 1974	
1.183	617.933	22 49	DEC 28, 1974	
1.200	617.992	22 50	DEC 28, 1974	
1.217	617.875	22 51	DEC 28, 1974	
1.233	617.933	22 52	DEC 28, 1974	
1.250	617.933	22 53	DEC 28, 1974	
1.267	617.933	22 54	DEC 28, 1974	
1.283	617.875	22 55	DEC 28, 1974	
1.300	617.992	22 56	DEC 28, 1974	
1.317	617.875	22 57	DEC 28, 1974	





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	617,933	22 58	DEC 28,1974	
1,350	617,933	22 59	DEC 28,1974	
1,367	617,933	23 00	DEC 28,1974	
1,383	617,933	23 01	DEC 28,1974	
1,400	617,992	23 02	DEC 28,1974	
1,417	617,933	23 03	DEC 28,1974	
1,433	617,992	23 04	DEC 28,1974	
1,450	618,341	23 05	DEC 28,1974	
1,467	617,933	23 06	DEC 28,1974	
1,483	618,050	23 07	DEC 28,1974	
1,500	617,933	23 08	DEC 28,1974	
1,517	618,108	23 09	DEC 28,1974	
1,533	617,933	23 10	DEC 28,1974	
1,550	617,992	23 11	DEC 28,1974	
1,567	618,050	23 12	DEC 28,1974	
1,583	617,933	23 13	DEC 28,1974	
1,600	618,166	23 14	DEC 28,1974	
1,617	617,992	23 15	DEC 28,1974	
1,633	617,992	23 16	DEC 28,1974	
1,650	618,807	23 17	DEC 28,1974	
1,667	617,992	23 18	DEC 28,1974	
1,683	618,108	23 19	DEC 28,1974	
1,700	618,050	23 20	DEC 28,1974	
1,717	617,992	23 21	DEC 28,1974	
1,733	617,933	23 22	DEC 28,1974	
1,750	618,108	23 23	DEC 28,1974	
1,767	617,933	23 24	DEC 28,1974	
1,783	617,875	23 25	DEC 28,1974	
1,800	617,817	23 26	DEC 28,1974	
1,817	617,875	23 27	DEC 28,1974	
1,833	617,875	23 28	DEC 28,1974	
1,850	617,817	23 29	DEC 28,1974	
1,867	617,875	23 30	DEC 28,1974	
1,883	617,933	23 31	DEC 28,1974	
1,900	617,875	23 32	DEC 28,1974	
1,917	617,817	23 33	DEC 28,1974	
1,933	617,875	23 34	DEC 28,1974	
1,950	617,875	23 35	DEC 28,1974	
1,967	617,875	23 36	DEC 28,1974	
1,983	617,817	23 37	DEC 28,1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,000	617,875	23 38	DEC 28, 1974	
2,017	617,875	23 39	DEC 28, 1974	
2,033	617,933	23 40	DEC 28, 1974	
2,050	617,817	23 41	DEC 28, 1974	
2,067	617,875	23 42	DEC 28, 1974	
2,083	617,933	23 43	DEC 28, 1974	
2,100	617,875	23 44	DEC 28, 1974	
2,117	617,817	23 45	DEC 28, 1974	
2,133	617,875	23 46	DEC 28, 1974	
2,150	617,875	23 47	DEC 28, 1974	
2,167	617,875	23 48	DEC 28, 1974	
2,183	618,516	23 49	DEC 28, 1974	START AIR JET
2,200	627,429	23 50	DEC 28, 1974	DOWN DRILLPIPE
2,217	623,759	23 51	DEC 28, 1974	
2,233	600,178	23 52	DEC 28, 1974	
2,250	605,033	23 53	DEC 28, 1974	
2,267	608,485	23 54	DEC 28, 1974	
2,283	608,134	23 55	DEC 28, 1974	
2,300	607,900	23 56	DEC 28, 1974	
2,317	607,608	23 57	DEC 28, 1974	
2,333	607,666	23 58	DEC 28, 1974	
2,350	607,432	23 59	DEC 28, 1974	
2,367	607,374	00 00	DEC 29, 1974	
2,383	607,374	00 01	DEC 29, 1974	
2,400	607,198	00 02	DEC 29, 1974	
2,417	607,198	00 03	DEC 29, 1974	
2,433	606,964	00 04	DEC 29, 1974	
2,450	607,023	00 05	DEC 29, 1974	
2,467	607,023	00 06	DEC 29, 1974	
2,483	606,906	00 07	DEC 29, 1974	
2,500	606,964	00 08	DEC 29, 1974	
2,517	607,023	00 09	DEC 29, 1974	
2,533	607,081	00 10	DEC 29, 1974	
2,550	606,964	00 11	DEC 29, 1974	
2,567	606,964	00 12	DEC 29, 1974	
2,583	606,906	00 13	DEC 29, 1974	
2,600	606,906	00 14	DEC 29, 1974	
2,617	606,789	00 15	DEC 29, 1974	
2,633	606,789	00 16	DEC 29, 1974	
2,650	606,789	00 17	DEC 29, 1974	





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	606,789	00 18	DEC 29, 1974	
2,683	606,730	00 19	DEC 29, 1974	
2,700	606,672	00 20	DEC 29, 1974	
2,717	606,672	00 21	DEC 29, 1974	
2,733	606,613	00 22	DEC 29, 1974	
2,750	606,555	00 23	DEC 29, 1974	
2,767	606,555	00 24	DEC 29, 1974	
2,783	606,555	00 25	DEC 29, 1974	
2,800	606,379	00 26	DEC 29, 1974	
2,817	606,438	00 27	DEC 29, 1974	
2,833	606,379	00 28	DEC 29, 1974	
2,850	606,321	00 29	DEC 29, 1974	
2,867	606,379	00 30	DEC 29, 1974	
2,883	606,379	00 31	DEC 29, 1974	
2,900	606,379	00 32	DEC 29, 1974	
2,917	606,321	00 33	DEC 29, 1974	
2,933	606,379	00 34	DEC 29, 1974	
2,950	606,321	00 35	DEC 29, 1974	
2,967	606,379	00 36	DEC 29, 1974	
2,983	606,438	00 37	DEC 29, 1974	
3,000	606,379	00 38	DEC 29, 1974	
3,017	606,379	00 39	DEC 29, 1974	
3,033	606,438	00 40	DEC 29, 1974	
3,050	606,379	00 41	DEC 29, 1974	
3,067	606,262	00 42	DEC 29, 1974	
3,083	606,379	00 43	DEC 29, 1974	
3,100	606,379	00 44	DEC 29, 1974	
3,117	606,262	00 45	DEC 29, 1974	
3,133	606,321	00 46	DEC 29, 1974	
3,150	606,321	00 47	DEC 29, 1974	
3,167	604,273	00 48	DEC 29, 1974	
3,183	606,613	00 49	DEC 29, 1974	
3,200	606,145	00 50	DEC 29, 1974	
3,217	605,736	00 51	DEC 29, 1974	
3,233	606,555	00 52	DEC 29, 1974	
3,250	606,379	00 53	DEC 29, 1974	
3,267	606,145	00 54	DEC 29, 1974	
3,283	606,321	00 55	DEC 29, 1974	
3,300	606,321	00 56	DEC 29, 1974	
3,317	606,262	00 57	DEC 29, 1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3.333	606.204	00 58	DEC 29, 1974	
3.350	606.145	00 59	DEC 29, 1974	END JETTING
3.367	605.970	01 00	DEC 29, 1974	DOWN DRILLPIPE
3.383	591.928	01 01	DEC 29, 1974	
3.400	603.161	01 02	DEC 29, 1974	
3.417	610.767	01 03	DEC 29, 1974	
3.433	613.448	01 04	DEC 29, 1974	
3.450	614.147	01 05	DEC 29, 1974	
3.467	615.021	01 06	DEC 29, 1974	
3.483	615.370	01 07	DEC 29, 1974	
3.500	615.545	01 08	DEC 29, 1974	
3.517	615.487	01 09	DEC 29, 1974	
3.533	615.836	01 10	DEC 29, 1974	
3.550	615.836	01 11	DEC 29, 1974	
3.567	615.836	01 12	DEC 29, 1974	
3.583	615.428	01 13	DEC 29, 1974	
3.600	616.069	01 14	DEC 29, 1974	
3.617	616.069	01 15	DEC 29, 1974	
3.633	615.778	01 16	DEC 29, 1974	
3.650	616.186	01 17	DEC 29, 1974	
3.667	616.127	01 18	DEC 29, 1974	
3.683	615.953	01 19	DEC 29, 1974	
3.700	616.302	01 20	DEC 29, 1974	
3.717	616.244	01 21	DEC 29, 1974	
3.733	616.360	01 22	DEC 29, 1974	
3.750	616.419	01 23	DEC 29, 1974	
3.767	616.594	01 24	DEC 29, 1974	
3.783	616.652	01 25	DEC 29, 1974	
3.800	616.652	01 26	DEC 29, 1974	
3.817	616.652	01 27	DEC 29, 1974	
3.833	616.652	01 28	DEC 29, 1974	
3.850	616.652	01 29	DEC 29, 1974	
3.867	616.768	01 30	DEC 29, 1974	
3.883	616.768	01 31	DEC 29, 1974	
3.900	616.827	01 32	DEC 29, 1974	
3.917	616.827	01 33	DEC 29, 1974	
3.933	616.827	01 34	DEC 29, 1974	
3.950	616.768	01 35	DEC 29, 1974	
3.967	616.768	01 36	DEC 29, 1974	
3.983	616.768	01 37	DEC 29, 1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.000	616.827	01 38	DEC 29, 1974	
4.017	616.768	01 39	DEC 29, 1974	
4.033	616.827	01 40	DEC 29, 1974	
4.050	616.827	01 41	DEC 29, 1974	
4.067	616.827	01 42	DEC 29, 1974	
4.083	616.827	01 43	DEC 29, 1974	
4.100	616.827	01 44	DEC 29, 1974	
4.117	616.827	01 45	DEC 29, 1974	
4.133	616.885	01 46	DEC 29, 1974	
4.150	616.943	01 47	DEC 29, 1974	
4.167	616.943	01 48	DEC 29, 1974	
4.183	616.943	01 49	DEC 29, 1974	
4.200	616.943	01 50	DEC 29, 1974	
4.217	616.943	01 51	DEC 29, 1974	
4.233	616.943	01 52	DEC 29, 1974	
4.250	617.001	01 53	DEC 29, 1974	
4.267	617.001	01 54	DEC 29, 1974	
4.283	616.943	01 55	DEC 29, 1974	
4.300	617.001	01 56	DEC 29, 1974	
4.317	617.001	01 57	DEC 29, 1974	
4.333	617.060	01 58	DEC 29, 1974	
4.350	617.001	01 59	DEC 29, 1974	
4.367	617.001	02 00	DEC 29, 1974	
4.383	617.001	02 01	DEC 29, 1974	
4.400	617.060	02 02	DEC 29, 1974	
4.417	617.060	02 03	DEC 29, 1974	
4.433	617.001	02 04	DEC 29, 1974	
4.450	617.060	02 05	DEC 29, 1974	
4.467	617.060	02 06	DEC 29, 1974	
4.483	617.001	02 07	DEC 29, 1974	60 GPM DOWN
4.500	617.060	02 08	DEC 29, 1974	ANNULUS
4.517	617.060	02 09	DEC 29, 1974	
4.533	617.060	02 10	DEC 29, 1974	
4.550	617.118	02 11	DEC 29, 1974	
4.567	617.001	02 12	DEC 29, 1974	
4.583	617.118	02 13	DEC 29, 1974	
4.600	617.118	02 14	DEC 29, 1974	
4.617	617.118	02 15	DEC 29, 1974	
4.633	617.118	02 16	DEC 29, 1974	
4.650	617.118	02 17	DEC 29, 1974	





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,667	617,118	02 18	DEC 29,1974	
4,683	617,118	02 19	DEC 29,1974	
4,700	617,118	02 20	DEC 29,1974	
4,717	617,118	02 21	DEC 29,1974	
4,733	617,176	02 22	DEC 29,1974	
4,750	617,118	02 23	DEC 29,1974	
4,767	617,118	02 24	DEC 29,1974	
4,783	617,176	02 25	DEC 29,1974	
4,800	617,176	02 26	DEC 29,1974	
4,817	617,118	02 27	DEC 29,1974	
4,833	617,118	02 28	DEC 29,1974	
4,850	617,118	02 29	DEC 29,1974	
4,867	617,118	02 30	DEC 29,1974	
4,883	617,118	02 31	DEC 29,1974	
4,900	617,176	02 32	DEC 29,1974	
4,917	617,176	02 33	DEC 29,1974	
4,933	617,234	02 34	DEC 29,1974	
4,950	617,176	02 35	DEC 29,1974	
4,967	617,234	02 36	DEC 29,1974	
4,983	617,176	02 37	DEC 29,1974	
5,000	617,176	02 38	DEC 29,1974	
5,017	617,176	02 39	DEC 29,1974	
5,033	617,176	02 40	DEC 29,1974	
5,050	617,176	02 41	DEC 29,1974	
5,067	617,234	02 42	DEC 29,1974	START DECLINE
5,083	617,176	02 43	DEC 29,1974	
5,100	617,176	02 44	DEC 29,1974	
5,117	617,176	02 45	DEC 29,1974	
5,133	617,176	02 46	DEC 29,1974	
5,150	617,176	02 47	DEC 29,1974	
5,167	617,176	02 48	DEC 29,1974	
5,183	617,176	02 49	DEC 29,1974	
5,200	617,176	02 50	DEC 29,1974	
5,217	617,176	02 51	DEC 29,1974	
5,233	617,176	02 52	DEC 29,1974	
5,250	617,176	02 53	DEC 29,1974	
5,267	617,176	02 54	DEC 29,1974	
5,283	617,176	02 55	DEC 29,1974	
5,300	617,176	02 56	DEC 29,1974	2 GPM DOWN
5,317	617,642	02 57	DEC 29,1974	DRILL PIPE



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,333	618,574	02 58	DEC 29, 1974	
5,350	618,866	02 59	DEC 29, 1974	
5,367	619,099	03 00	DEC 29, 1974	
5,383	619,099	03 01	DEC 29, 1974	
5,400	619,390	03 02	DEC 29, 1974	
5,417	619,390	03 03	DEC 29, 1974	
5,433	619,390	03 04	DEC 29, 1974	
5,450	619,448	03 05	DEC 29, 1974	
5,467	619,448	03 06	DEC 29, 1974	
5,483	619,448	03 07	DEC 29, 1974	
5,500	619,448	03 08	DEC 29, 1974	
5,517	619,448	03 09	DEC 29, 1974	
5,533	619,448	03 10	DEC 29, 1974	
5,550	619,448	03 11	DEC 29, 1974	
5,567	619,448	03 12	DEC 29, 1974	
5,583	619,506	03 13	DEC 29, 1974	
5,600	619,506	03 14	DEC 29, 1974	
5,617	619,565	03 15	DEC 29, 1974	
5,633	619,565	03 16	DEC 29, 1974	5 GPM DOWN
5,650	620,089	03 17	DEC 29, 1974	DRILL PIPE
5,667	621,079	03 18	DEC 29, 1974	
5,683	621,604	03 19	DEC 29, 1974	
5,700	622,011	03 20	DEC 29, 1974	
5,717	622,128	03 21	DEC 29, 1974	
5,733	622,361	03 22	DEC 29, 1974	
5,750	622,419	03 23	DEC 29, 1974	
5,767	622,477	03 24	DEC 29, 1974	
5,783	622,594	03 25	DEC 29, 1974	
5,800	622,652	03 26	DEC 29, 1974	
5,817	622,710	03 27	DEC 29, 1974	
5,833	622,710	03 28	DEC 29, 1974	
5,850	622,710	03 29	DEC 29, 1974	
5,867	622,652	03 30	DEC 29, 1974	
5,883	622,710	03 31	DEC 29, 1974	
5,900	622,710	03 32	DEC 29, 1974	
5,917	622,769	03 33	DEC 29, 1974	
5,933	622,769	03 34	DEC 29, 1974	
5,950	622,769	03 35	DEC 29, 1974	
5,967	622,943	03 36	DEC 29, 1974	11 GPM DOWN
5,983	625,740	03 37	DEC 29, 1974	DRILL PIPE



JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,000	628,303	03 38	DEC 29,1974	
6,017	629,701	03 39	DEC 29,1974	
6,033	630,633	03 40	DEC 29,1974	
6,050	631,332	03 41	DEC 29,1974	
6,067	631,857	03 42	DEC 29,1974	
6,083	632,323	03 43	DEC 29,1974	
6,100	632,556	03 44	DEC 29,1974	
6,117	633,022	03 45	DEC 29,1974	
6,133	633,255	03 46	DEC 29,1974	
6,150	633,430	03 47	DEC 29,1974	
6,167	633,546	03 48	DEC 29,1974	
6,183	633,721	03 49	DEC 29,1974	
6,200	633,896	03 50	DEC 29,1974	
6,217	633,954	03 51	DEC 29,1974	
6,233	634,129	03 52	DEC 29,1974	
6,250	634,303	03 53	DEC 29,1974	
6,267	634,420	03 54	DEC 29,1974	
6,283	634,595	03 55	DEC 29,1974	
6,300	635,469	03 56	DEC 29,1974	20 GPM DCWN
6,317	641,818	03 57	DEC 29,1974	DRILL PIPE
6,333	646,013	03 58	DEC 29,1974	
6,350	648,867	03 59	DEC 29,1974	
6,367	651,314	04 00	DEC 29,1974	
6,383	653,819	04 01	DEC 29,1974	
6,400	656,382	04 02	DEC 29,1974	
6,417	658,771	04 03	DEC 29,1974	
6,433	660,752	04 04	DEC 29,1974	
6,450	661,334	04 05	DEC 29,1974	
6,467	662,732	04 06	DEC 29,1974	
6,483	664,247	04 07	DEC 29,1974	
6,500	665,470	04 08	DEC 29,1974	
6,517	667,509	04 09	DEC 29,1974	
6,533	669,199	04 10	DEC 29,1974	
6,550	671,296	04 11	DEC 29,1974	
6,567	673,393	04 12	DEC 29,1974	
6,583	675,549	04 13	DEC 29,1974	
6,600	677,646	04 14	DEC 29,1974	
6,617	679,685	04 15	DEC 29,1974	
6,633	686,792	04 16	DEC 29,1974	30 GPM DOWN
6,650	699,900	04 17	DEC 29,1974	DRILL PIPE





JOB NUMBER  
SPG-11210-BB

DATE OF JOB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,667	703,220	04 18	DEC 29,1974	
6,683	712,425	04 19	DEC 29,1974	
6,700	720,289	04 20	DEC 29,1974	
6,717	721,921	04 21	DEC 29,1974	
6,733	729,319	04 22	DEC 29,1974	
6,750	736,019	04 23	DEC 29,1974	
6,767	738,582	04 24	DEC 29,1974	
6,783	741,786	04 25	DEC 29,1974	
6,800	744,116	04 26	DEC 29,1974	
6,817	747,204	04 27	DEC 29,1974	
6,833	748,777	04 28	DEC 29,1974	
6,850	754,195	04 29	DEC 29,1974	
6,867	759,379	04 30	DEC 29,1974	
6,883	762,350	04 31	DEC 29,1974	OVER FLOW
6,900	764,797	04 32	DEC 29,1974	30 GPM
6,917	767,127	04 33	DEC 29,1974	
6,933	770,623	04 34	DEC 29,1974	
6,950	772,196	04 35	DEC 29,1974	END OVERFLOW
6,967	748,602	04 36	DEC 29,1974	
6,983	725,533	04 37	DEC 29,1974	
7,000	705,492	04 38	DEC 29,1974	
7,017	688,482	04 39	DEC 29,1974	
7,033	674,442	04 40	DEC 29,1974	START DECLINE
7,050	663,024	04 41	DEC 29,1974	
7,067	653,586	04 42	DEC 29,1974	
7,083	645,838	04 43	DEC 29,1974	
7,100	639,488	04 44	DEC 29,1974	
7,117	634,653	04 45	DEC 29,1974	
7,133	631,099	04 46	DEC 29,1974	
7,150	628,245	04 47	DEC 29,1974	
7,167	626,264	04 48	DEC 29,1974	
7,183	624,749	04 49	DEC 29,1974	
7,200	623,701	04 50	DEC 29,1974	
7,217	622,769	04 51	DEC 29,1974	
7,233	622,244	04 52	DEC 29,1974	
7,250	621,720	04 53	DEC 29,1974	
7,267	621,371	04 54	DEC 29,1974	
7,283	621,021	04 55	DEC 29,1974	
7,300	620,788	04 56	DEC 29,1974	
7,317	620,497	04 57	DEC 29,1974	



JOB NUMBER  
SPG-11210-BB

DATE OF JCB  
12-28-74

GAUGE/RUN NUMBER  
98 DST NO. 30

DATE OF RUN  
1-15-75

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7,333	620,322	04 58	DEC 29,1974	
7,350	620,147	04 59	DEC 29,1974	
7,367	620,031	05 00	DEC 29,1974	
7,383	619,856	05 01	DEC 29,1974	
7,400	619,856	05 02	DEC 29,1974	
7,417	619,739	05 03	DEC 29,1974	
7,433	619,681	05 04	DEC 29,1974	
7,450	619,565	05 05	DEC 29,1974	
7,467	619,448	05 06	DEC 29,1974	
7,483	619,448	05 07	DEC 29,1974	
7,500	619,448	05 08	DEC 29,1974	
7,517	619,273	05 09	DEC 29,1974	
7,533	619,273	05 10	DEC 29,1974	END DECLINE
7,550	619,215	05 11	DEC 29,1974	
7,567	619,215	05 12	DEC 29,1974	
7,583	619,157	05 13	DEC 29,1974	
7,600	619,215	05 14	DEC 29,1974	
7,617	619,040	05 15	DEC 29,1974	
7,633	618,982	05 16	DEC 29,1974	
7,650	618,982	05 17	DEC 29,1974	
7,667	618,982	05 18	DEC 29,1974	
7,683	618,924	05 19	DEC 29,1974	
7,700	618,866	05 20	DEC 29,1974	
7,717	618,866	05 21	DEC 29,1974	
7,733	618,866	05 22	DEC 29,1974	END OF TEST

II B-1363

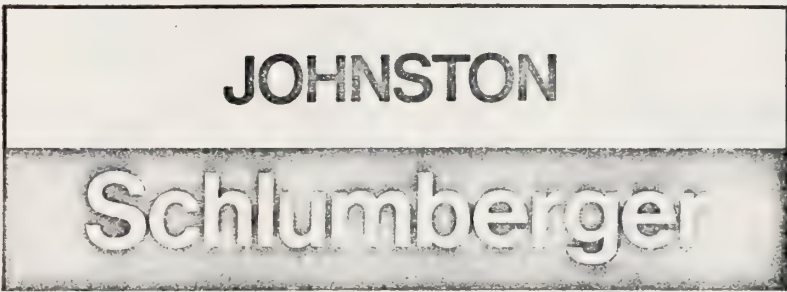
465 POINTS REPORTED THIS RUN

PAGE 14



→ Jrm

COMPANY ATLANTIC-RICHFIELD WELL FEDERAL S. G. #17 TEST NO. 31 COUNTY RIO BLANCO STATE COLORADO



technical  
report

II B-1364

F.R. #09083 C









<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-		614.5	
PACKER SEAT	2	-		624.4	
TOOL OPENED (12-30-74)	3	1441	0	150.0	
CLOSED FOR INITIAL SHUT-IN	4	1443	2	171.1	
			4	606.0	
			6	606.0	
			8	606.0	
			10	606.0	
			12	606.0	
			14	606.0	
			16	606.0	
			18	606.0	
			20	606.0	
			22	606.0	
			24	606.0	
			26	606.0	
			28	606.0	
			30	606.0	
INITIAL SHUT-IN	5	1515	32	606.0	
			34	607.5	
CYCLING TOOL	6	1518	35	607.5	
TOOL RE-OPENED - INITIAL FLOW	7	1518	35	78.3	
			36	114.9	
			38	145.8	
			40	169.8	
			42	188.1	
			44	207.8	
			46	224.6	
			48	242.9	
			50	259.8	
			52	276.7	
			54	293.6	
			56	307.7	
			58	324.6	
			60	337.2	
			62	354.1	
			64	366.8	
			66	378.1	
			68	392.1	
			70	403.4	
			72	416.1	
			74	425.9	
			76	437.2	
			78	448.4	
			80	458.3	
			82	468.1	
			84	476.6	
			86	486.4	
			88	493.5	
			90	501.9	
			92	510.4	
			94	516.0	
			96	523.0	
			98	530.1	



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>
			100	535.7	
			102	539.9	
			104	545.6	
			106	551.2	
			108	555.4	
			110	559.6	
			112	562.4	
			114	565.3	
			116	569.5	
			118	572.3	
			120	575.1	
			122	577.9	
			124	579.3	
			126	582.2	
			128	583.6	
			130	585.0	
			132	586.4	
			134	587.8	
			136	589.2	
			138	589.2	
			140	590.6	
			142	592.0	
			144	593.4	
			146	593.4	
			148	593.4	
			150	594.8	
			152	596.2	
			154	596.2	
			156	596.2	
			158	597.6	
			160	597.6	
			162	597.6	
			164	597.6	
			166	599.0	
			168	599.0	
			170	599.0	
			172	599.0	
			174	599.0	
			176	600.4	
			178	600.4	
			180	600.4	
			182	600.4	
			184	600.4	
			186	600.4	
			188	601.9	
			190	601.9	
			192	601.9	
			194	601.9	
			196	601.9	
			198	601.9	
			200	601.9	
			202	601.9	
			204	601.9	
			206	601.9	
			208	601.9	
			210	601.9	





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT PRESSURE (P.S.I.G.)</u>
			212	601.9	
			214	603.3	
			216	603.3	
			218	603.3	
			220	604.7	
			222	604.7	
			224	604.7	
			226	604.7	
			228	604.7	
			230	604.7	
			232	604.7	
			234	604.7	
			236	604.7	
STARTED JETTING WATER	8	1838	237	604.7	
			238	635.6	
JETTING	9	1840	239	646.9	
			240	545.6	
JETTING	10	1842	241	542.7	
			242	562.4	
JETTING	11	1844	243	582.2	
			244	577.9	
			246	572.3	
			248	569.5	
			250	569.5	
			252	569.5	
			254	569.5	
			256	569.5	
			258	569.5	
			260	569.5	
			262	569.5	
			264	569.5	
			266	569.5	
			268	569.5	
			270	569.5	
			272	569.5	
			274	569.5	
			276	569.5	
			278	569.5	
			280	569.5	
			282	569.5	
			284	569.5	
			286	568.1	
			288	568.1	
			290	568.1	
			292	568.1	
			294	568.1	
			296	568.1	
			298	568.1	
			300	568.1	
JETTING	12	1943	302	568.1	
FINISHED JETTING	13	1945	304	535.7	
			306	548.4	
		II B-1368	308	554.0	
			310	559.6	
			312	563.9	
			314	568.1	



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>
			316	570.9	
			318	575.1	
			320	579.3	
			322	580.7	
			324	583.6	
			326	585.0	
			328	586.4	
			330	589.2	
			332	589.2	
			334	590.6	
			336	592.0	
			338	593.4	
			340	593.4	
			342	594.8	
			344	596.2	
			346	596.2	
			348	597.6	
			350	597.6	
			352	599.0	
			354	599.0	
			356	600.4	
			358	600.4	
			360	600.4	
			362	600.4	
			364	600.4	
			366	601.9	
			368	601.9	
			370	603.3	
			372	603.3	
			374	603.3	
			376	603.3	
			378	603.3	
			380	603.3	
			382	603.3	
			384	603.3	
			386	603.3	
			388	603.3	
			390	603.3	
			394	603.3	
			396	603.3	
			398	603.3	
			400	603.3	
			402	603.3	
			404	603.3	
			406	603.3	
			408	603.3	
			410	603.3	
			412	604.7	
			414	604.7	
			416	604.7	
			418	604.7	
			420	604.7	
			422	604.7	
			424	604.7	
			426	604.7	
			428	604.7	

II B-1369



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>
			430	604.7	
			432	604.7	
			434	604.7	
			436	604.7	
			438	604.7	
			440	604.7	
			442	604.7	
			444	604.7	
			446	604.7	
			448	604.7	
			450	604.7	
	14	2212	451	604.7	
STARTED INJECTION - 2 GAL./MIN.			452	608.9	
			454	614.5	
			456	620.2	
			458	624.4	
			460	628.6	
			462	632.8	
			464	637.0	
			466	639.9	
			468	642.7	
			470	646.9	
STARTED 5 GAL./MIN.			472	653.9	
			474	658.2	
			476	663.8	
			478	669.4	
			480	673.6	
			482	679.3	
			484	682.1	
			486	686.3	
			488	689.1	
STARTED 11 GAL./MIN.	15	2250	489	690.5	
			490	700.4	
			492	715.9	
			494	729.9	
			496	746.8	
			498	758.1	
			500	769.3	
			502	779.2	
			504	790.5	
			506	798.9	
			508	807.4	
			510	822.8	
			512	827.1	
			514	827.1	
			516	828.5	
			518	829.9	
			520	829.9	
			522	829.9	
			524	829.9	
		II B-1370	526	829.9	
FINISHED INJECTION - STARTED PRESSURE FALL OFF	16	2329	528	829.9	
			530	815.8	





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT</u> <u>PRESSURE (P.S.I.G.)</u>
			532	800.3	
			534	784.8	
			536	773.6	
			538	762.3	
			540	751.1	
			542	741.2	
			544	731.3	
			546	724.3	
			548	714.5	
			550	707.4	
			552	701.8	
			554	703.2	
			556	690.5	
			558	684.9	
CLOSED TOOL (12-31-74)	17	0001	560	680.7	
			562	623.0	
			564	621.6	
PULLED PACKER LOOSE	18	0007	566	621.6	
FINAL HYDROSTATIC	19	-	-	617.3	

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.)

2800#

DEPTH:

1920'

INSTRUMENT OPENING:

OUTSIDE





FIELD REPORT NO.

09083 C

CAPACITY

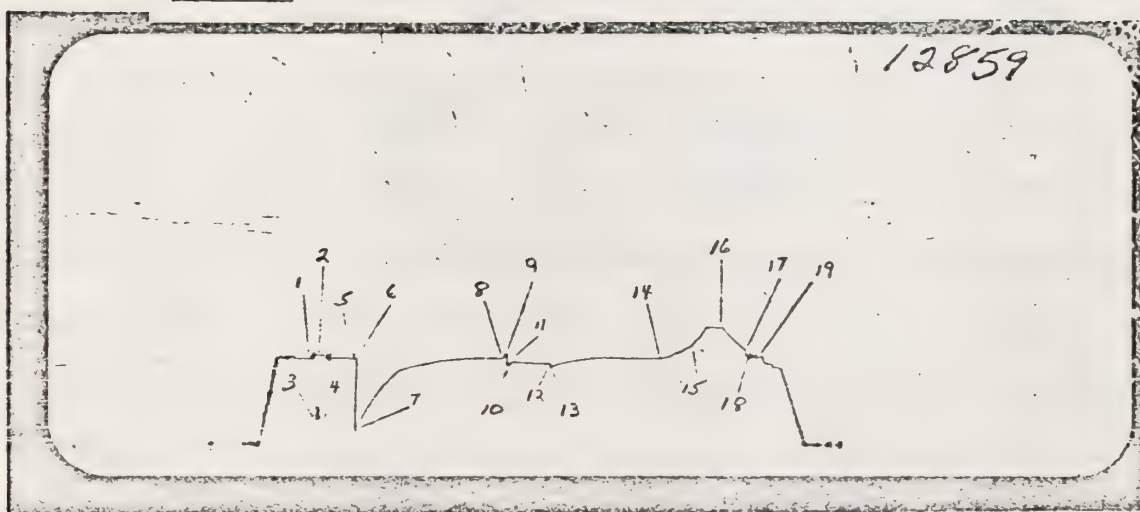
2800#

RECORDER NO.

4097 N

REPORTS REQUESTED

14-





# PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SP-11710-CC Date 12/22/74 Run 1 : DET 31 Office CASPER  
 Customer ARCO CO Location SARGENT CONCRETE  
 State COLORADO County/Parish San Juan  
 Well 56 No. 17 Field TEST CB

## USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/ <u>hook</u>	1. <u>0430</u>	<u>12/30</u>	2. _____	_____	
Depart: Well/ <u>hook</u>	1. <u>0230</u>	<u>12/31</u>	2. _____	_____	Hrs.
Gauge Start in Hole	1. <u>1154</u>	<u>12/30</u>	2. _____	_____	
Gauge Out of Hole	1. <u>0220</u>	<u>12/31</u>	2. _____	_____	Hrs.
No. Trips <u>1</u>	Miles <u>45</u>	Total Mileage <u>90</u>			

Top Gauge # 197 Element # 35991 Range 1400<sup>#</sup> Time Mode 1 min  
 Btm. Gauge # 98 Element # 29001N Range 2500<sup>#</sup> Time Mode 1 min  
 Type Tool 1 1/2" ID HND Test Depth 1918-1970 Zero Point GROUND LEVEL  
 Packer Depth 1918' Tail Pipe Depth 1970 Top Gauge Depth 1870'  
 Bottom Hole Temp. \_\_\_\_\_ Atmos. Temp. \_\_\_\_\_ Bottom Gauge Depth 1927'

## TIME INFORMATION

Time Date

On Bottom 1330 12/30/74  
 Packer Set 1439 12/30/74  
 Initial Open 1441 12/30/74  
 Initial Shut-In 1442 12/30/74  
 Start Flow 1514 12/30/74  
 Final Shut-In 0005 12/31/74  
 Packer Unsented 0007 12/31/74

## PRESSURE INFORMATION

Initial Hydrostatic Mud \_\_\_\_\_  
 Initial Draw Down \_\_\_\_\_  
 Initial Build-Up \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Build-Up \_\_\_\_\_  
 Final Hydrostatic Mud \_\_\_\_\_  
 Mud Weight \_\_\_\_\_

## TIME OF SURFACE NULLS

Top Gauge 1220 1221 1223 Bottom Gauge 1128 1129 1130  
 Remarks DRILL PIPE SET @ 1421 HRS. : TOOL JOINT @ 1423 HRS. ;  
THIN TOOL PICKED UP @ 1425 ; RESET @ ABOVE TIMES.





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SCRUGHM GULCH TRACT CB  
COUNTY/PARISH    RIO BLANCO  
STATE             COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 197 WITH 1400LB ELEMENT

GAUGE DEPTH IS 1870 FT IN THE ANNULUS

PACKER SET AT 1918 FT.

GROUND LEVEL REFERENCE IS 7036 FEET

INITIAL HYDROSTATIC IS 599.17 PSI

FINAL HYDROSTATIC IS 605.83 PSI

TEST INTERVAL IS FROM SURFACE TO

1918 FT (PACKER DEPTH)

SURFACE TIMES RECORDED DURING TEST WERE NOT FROM A COMMON TIME

BASE THEREFORE EVENTS DO NOT CORRESPOND WITH COMMENTS ON DATA SHEETS.

II B-1374

567 POINTS REPORTED THIS JOB

PAGE 1 OF 17 PAGES



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-3 INIT, OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	611,366	14 41	DEC 30, 1974	INITIAL OPEN
.017	611,491	14 42	DEC 30, 1974	END OPEN

II B-1375

2 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	611,491	14 42	DEC 30, 1974	INITIAL SHUT-IN
.017	611,991	14 43	DEC 30, 1974	
.033	612,053	14 44	DEC 30, 1974	
.050	612,272	14 45	DEC 30, 1974	
.067	612,335	14 46	DEC 30, 1974	
.083	612,397	14 47	DEC 30, 1974	
.100	612,429	14 48	DEC 30, 1974	
.117	612,491	14 49	DEC 30, 1974	
.133	612,522	14 50	DEC 30, 1974	
.150	612,585	14 51	DEC 30, 1974	
.167	612,585	14 52	DEC 30, 1974	
.183	612,647	14 53	DEC 30, 1974	
.200	612,647	14 54	DEC 30, 1974	
.217	612,647	14 55	DEC 30, 1974	
.233	612,679	14 56	DEC 30, 1974	
.250	612,741	14 57	DEC 30, 1974	
.267	612,741	14 58	DEC 30, 1974	
.283	612,804	14 59	DEC 30, 1974	
.300	612,741	15 00	DEC 30, 1974	
.317	612,804	15 01	DEC 30, 1974	
.333	612,804	15 02	DEC 30, 1974	
.350	612,898	15 03	DEC 30, 1974	
.367	612,898	15 04	DEC 30, 1974	
.383	612,772	15 05	DEC 30, 1974	
.400	612,804	15 06	DEC 30, 1974	
.417	612,772	15 07	DEC 30, 1974	
.433	612,772	15 08	DEC 30, 1974	
.450	612,835	15 09	DEC 30, 1974	
.467	612,866	15 10	DEC 30, 1974	
.483	613,054	15 11	DEC 30, 1974	
.500	613,023	15 12	DEC 30, 1974	
.517	613,085	15 13	DEC 30, 1974	
.533	613,148	15 14	DEC 30, 1974	END SHUT-IN

II B-1376

33 POINTS REPORTED THIS RUN

PAGE 3





JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	613,148	15 14	DEC 30,1974	START FINAL
,017	612,804	15 15	DEC 30,1974	FLOW
,033	612,898	15 16	DEC 30,1974	
,050	612,991	15 17	DEC 30,1974	
,067	613,179	15 18	DEC 30,1974	
,083	613,210	15 19	DEC 30,1974	
,100	613,210	15 20	DEC 30,1974	
,117	613,241	15 21	DEC 30,1974	
,133	613,210	15 22	DEC 30,1974	
,150	613,273	15 23	DEC 30,1974	
,167	613,335	15 24	DEC 30,1974	
,183	613,398	15 25	DEC 30,1974	
,200	613,398	15 26	DEC 30,1974	
,217	613,398	15 27	DEC 30,1974	
,233	613,429	15 28	DEC 30,1974	
,250	613,460	15 29	DEC 30,1974	
,267	613,460	15 30	DEC 30,1974	
,283	613,492	15 31	DEC 30,1974	
,300	613,492	15 32	DEC 30,1974	
,317	613,492	15 33	DEC 30,1974	
,333	613,492	15 34	DEC 30,1974	
,350	613,554	15 35	DEC 30,1974	
,367	613,554	15 36	DEC 30,1974	
,383	613,585	15 37	DEC 30,1974	
,400	613,585	15 38	DEC 30,1974	
,417	613,617	15 39	DEC 30,1974	
,433	613,648	15 40	DEC 30,1974	
,450	613,648	15 41	DEC 30,1974	
,467	613,648	15 42	DEC 30,1974	
,483	613,742	15 43	DEC 30,1974	
,500	613,710	15 44	DEC 30,1974	
,517	613,742	15 45	DEC 30,1974	
,533	613,742	15 46	DEC 30,1974	
,550	613,773	15 47	DEC 30,1974	
,567	613,804	15 48	DEC 30,1974	
,583	613,804	15 49	DEC 30,1974	
,600	613,804	15 50	DEC 30,1974	
,617	613,836	15 51	DEC 30,1974	
,633	613,836	15 52	DEC 30,1974	
,650	613,836	15 53	DEC 30,1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
,667	613,867	15 54	DEC 30, 1974	
,683	613,898	15 55	DEC 30, 1974	
,700	613,898	15 56	DEC 30, 1974	
,717	613,929	15 57	DEC 30, 1974	
,733	613,929	15 58	DEC 30, 1974	
,750	613,992	15 59	DEC 30, 1974	
,767	613,961	16 00	DEC 30, 1974	
,783	613,992	16 01	DEC 30, 1974	
,800	614,023	16 02	DEC 30, 1974	
,817	614,023	16 03	DEC 30, 1974	
,833	614,023	16 04	DEC 30, 1974	
,850	614,023	16 05	DEC 30, 1974	
,867	614,023	16 06	DEC 30, 1974	
,883	614,023	16 07	DEC 30, 1974	
,900	614,054	16 08	DEC 30, 1974	
,917	614,086	16 09	DEC 30, 1974	
,933	614,086	16 10	DEC 30, 1974	
,950	614,117	16 11	DEC 30, 1974	
,967	614,117	16 12	DEC 30, 1974	
,983	614,148	16 13	DEC 30, 1974	
1,000	614,117	16 14	DEC 30, 1974	
1,017	614,179	16 15	DEC 30, 1974	
1,033	614,211	16 16	DEC 30, 1974	
1,050	614,211	16 17	DEC 30, 1974	
1,067	614,211	16 18	DEC 30, 1974	
1,083	614,211	16 19	DEC 30, 1974	
1,100	614,242	16 20	DEC 30, 1974	
1,117	614,242	16 21	DEC 30, 1974	
1,133	614,242	16 22	DEC 30, 1974	
1,150	614,273	16 23	DEC 30, 1974	
1,167	614,273	16 24	DEC 30, 1974	
1,183	614,304	16 25	DEC 30, 1974	
1,200	614,304	16 26	DEC 30, 1974	
1,217	614,336	16 27	DEC 30, 1974	
1,233	614,336	16 28	DEC 30, 1974	
1,250	614,367	16 29	DEC 30, 1974	
1,267	614,336	16 30	DEC 30, 1974	
1,283	614,367	16 31	DEC 30, 1974	
1,300	614,367	16 32	DEC 30, 1974	
1,317	614,430	16 33	DEC 30, 1974	



JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	614,430	16 34	DEC 30, 1974	
1,350	614,430	16 35	DEC 30, 1974	
1,367	614,430	16 36	DEC 30, 1974	
1,383	614,492	16 37	DEC 30, 1974	
1,400	614,430	16 38	DEC 30, 1974	
1,417	614,492	16 39	DEC 30, 1974	
1,433	614,555	16 40	DEC 30, 1974	
1,450	614,492	16 41	DEC 30, 1974	
1,467	614,523	16 42	DEC 30, 1974	
1,483	614,523	16 43	DEC 30, 1974	
1,500	614,555	16 44	DEC 30, 1974	
1,517	614,586	16 45	DEC 30, 1974	
1,533	614,586	16 46	DEC 30, 1974	
1,550	614,586	16 47	DEC 30, 1974	
1,567	614,617	16 48	DEC 30, 1974	
1,583	614,586	16 49	DEC 30, 1974	
1,600	614,648	16 50	DEC 30, 1974	
1,617	614,648	16 51	DEC 30, 1974	
1,633	614,617	16 52	DEC 30, 1974	
1,650	614,648	16 53	DEC 30, 1974	
1,667	614,680	16 54	DEC 30, 1974	
1,683	614,711	16 55	DEC 30, 1974	
1,700	614,711	16 56	DEC 30, 1974	
1,717	614,711	16 57	DEC 30, 1974	
1,733	614,711	16 58	DEC 30, 1974	
1,750	614,711	16 59	DEC 30, 1974	
1,767	614,742	17 00	DEC 30, 1974	
1,783	614,742	17 01	DEC 30, 1974	
1,800	614,742	17 02	DEC 30, 1974	
1,817	614,742	17 03	DEC 30, 1974	
1,833	614,805	17 04	DEC 30, 1974	
1,850	614,742	17 05	DEC 30, 1974	
1,867	614,805	17 06	DEC 30, 1974	
1,883	614,773	17 07	DEC 30, 1974	
1,900	614,836	17 08	DEC 30, 1974	
1,917	614,805	17 09	DEC 30, 1974	
1,933	614,836	17 10	DEC 30, 1974	
1,950	614,836	17 11	DEC 30, 1974	
1,967	614,867	17 12	DEC 30, 1974	
1,983	614,899	17 13	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,000	614,899	17 14	DEC 30, 1974	
2,017	614,867	17 15	DEC 30, 1974	
2,033	614,930	17 16	DEC 30, 1974	
2,050	614,930	17 17	DEC 30, 1974	
2,067	614,930	17 18	DEC 30, 1974	
2,083	614,930	17 19	DEC 30, 1974	
2,100	614,930	17 20	DEC 30, 1974	
2,117	614,930	17 21	DEC 30, 1974	
2,133	614,930	17 22	DEC 30, 1974	
2,150	614,961	17 23	DEC 30, 1974	
2,167	614,961	17 24	DEC 30, 1974	
2,183	614,961	17 25	DEC 30, 1974	
2,200	614,992	17 26	DEC 30, 1974	
2,217	615,024	17 27	DEC 30, 1974	
2,233	615,024	17 28	DEC 30, 1974	
2,250	615,024	17 29	DEC 30, 1974	
2,267	615,024	17 30	DEC 30, 1974	
2,283	615,055	17 31	DEC 30, 1974	
2,300	615,055	17 32	DEC 30, 1974	
2,317	615,055	17 33	DEC 30, 1974	
2,333	615,055	17 34	DEC 30, 1974	
2,350	615,055	17 35	DEC 30, 1974	
2,367	615,055	17 36	DEC 30, 1974	
2,383	615,117	17 37	DEC 30, 1974	
2,400	615,117	17 38	DEC 30, 1974	
2,417	615,149	17 39	DEC 30, 1974	
2,433	615,149	17 40	DEC 30, 1974	
2,450	615,117	17 41	DEC 30, 1974	
2,467	615,117	17 42	DEC 30, 1974	
2,483	615,117	17 43	DEC 30, 1974	
2,500	615,180	17 44	DEC 30, 1974	
2,517	615,211	17 45	DEC 30, 1974	
2,533	615,211	17 46	DEC 30, 1974	
2,550	615,211	17 47	DEC 30, 1974	
2,567	615,211	17 48	DEC 30, 1974	
2,583	615,211	17 49	DEC 30, 1974	
2,600	615,211	17 50	DEC 30, 1974	
2,617	615,211	17 51	DEC 30, 1974	
2,633	615,242	17 52	DEC 30, 1974	
2,650	615,242	17 53	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	615,274	17 54	DEC 30,1974	
2,683	615,274	17 55	DEC 30,1974	
2,700	615,274	17 56	DEC 30,1974	
2,717	615,274	17 57	DEC 30,1974	
2,733	615,336	17 58	DEC 30,1974	
2,750	615,305	17 59	DEC 30,1974	
2,767	615,305	18 00	DEC 30,1974	
2,783	615,305	18 01	DEC 30,1974	
2,800	615,336	18 02	DEC 30,1974	
2,817	615,336	18 03	DEC 30,1974	
2,833	615,336	18 04	DEC 30,1974	
2,850	615,368	18 05	DEC 30,1974	
2,867	615,368	18 06	DEC 30,1974	
2,883	615,368	18 07	DEC 30,1974	
2,900	615,368	18 08	DEC 30,1974	
2,917	615,399	18 09	DEC 30,1974	
2,933	615,399	18 10	DEC 30,1974	
2,950	615,399	18 11	DEC 30,1974	
2,967	615,430	18 12	DEC 30,1974	
2,983	615,430	18 13	DEC 30,1974	
3,000	615,461	18 14	DEC 30,1974	
3,017	615,493	18 15	DEC 30,1974	
3,033	615,493	18 16	DEC 30,1974	
3,050	615,493	18 17	DEC 30,1974	
3,067	615,493	18 18	DEC 30,1974	
3,083	615,493	18 19	DEC 30,1974	
3,100	615,493	18 20	DEC 30,1974	
3,117	615,493	18 21	DEC 30,1974	
3,133	615,524	18 22	DEC 30,1974	
3,150	615,493	18 23	DEC 30,1974	
3,167	615,493	18 24	DEC 30,1974	
3,183	615,555	18 25	DEC 30,1974	
3,200	615,555	18 26	DEC 30,1974	
3,217	615,555	18 27	DEC 30,1974	
3,233	615,555	18 28	DEC 30,1974	
3,250	615,555	18 29	DEC 30,1974	
3,267	615,555	18 30	DEC 30,1974	
3,283	615,586	18 31	DEC 30,1974	
3,300	615,618	18 32	DEC 30,1974	
3,317	615,618	18 33	DEC 30,1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,333	615,618	18 34	DEC 30, 1974	
3,350	615,618	18 35	DEC 30, 1974	
3,367	615,618	18 36	DEC 30, 1974	
3,383	615,618	18 37	DEC 30, 1974	
3,400	615,680	18 38	DEC 30, 1974	
3,417	615,680	18 39	DEC 30, 1974	
3,433	615,680	18 40	DEC 30, 1974	START JETTING
3,450	615,649	18 41	DEC 30, 1974	DRILL PIPE
3,467	615,680	18 42	DEC 30, 1974	
3,483	615,649	18 43	DEC 30, 1974	
3,500	615,649	18 44	DEC 30, 1974	
3,517	615,743	18 45	DEC 30, 1974	
3,533	615,680	18 46	DEC 30, 1974	
3,550	615,711	18 47	DEC 30, 1974	
3,567	615,711	18 48	DEC 30, 1974	
3,583	615,774	18 49	DEC 30, 1974	
3,600	615,774	18 50	DEC 30, 1974	
3,617	615,774	18 51	DEC 30, 1974	
3,633	615,774	18 52	DEC 30, 1974	
3,650	615,837	18 53	DEC 30, 1974	
3,667	615,837	18 54	DEC 30, 1974	
3,683	615,837	18 55	DEC 30, 1974	
3,700	615,837	18 56	DEC 30, 1974	
3,717	615,837	18 57	DEC 30, 1974	
3,733	615,868	18 58	DEC 30, 1974	
3,750	615,868	18 59	DEC 30, 1974	
3,767	615,899	19 00	DEC 30, 1974	
3,783	615,899	19 01	DEC 30, 1974	
3,800	615,899	19 02	DEC 30, 1974	
3,817	615,899	19 03	DEC 30, 1974	
3,833	615,899	19 04	DEC 30, 1974	
3,850	615,899	19 05	DEC 30, 1974	
3,867	615,899	19 06	DEC 30, 1974	
3,883	615,930	19 07	DEC 30, 1974	
3,900	615,930	19 08	DEC 30, 1974	
3,917	615,962	19 09	DEC 30, 1974	
3,933	615,962	19 10	DEC 30, 1974	
3,950	615,962	19 11	DEC 30, 1974	
3,967	615,962	19 12	DEC 30, 1974	
3,983	615,993	19 13	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,000	615,993	19 14	DEC 30, 1974	
4,017	615,993	19 15	DEC 30, 1974	
4,033	615,993	19 16	DEC 30, 1974	
4,050	616,024	19 17	DEC 30, 1974	
4,067	616,024	19 18	DEC 30, 1974	
4,083	616,024	19 19	DEC 30, 1974	
4,100	616,024	19 20	DEC 30, 1974	
4,117	616,055	19 21	DEC 30, 1974	
4,133	616,055	19 22	DEC 30, 1974	
4,150	616,055	19 23	DEC 30, 1974	
4,167	616,055	19 24	DEC 30, 1974	
4,183	616,055	19 25	DEC 30, 1974	
4,200	616,055	19 26	DEC 30, 1974	
4,217	616,055	19 27	DEC 30, 1974	
4,233	616,087	19 28	DEC 30, 1974	
4,250	616,087	19 29	DEC 30, 1974	
4,267	616,118	19 30	DEC 30, 1974	
4,283	616,118	19 31	DEC 30, 1974	
4,300	616,118	19 32	DEC 30, 1974	
4,317	616,118	19 33	DEC 30, 1974	
4,333	616,149	19 34	DEC 30, 1974	
4,350	616,118	19 35	DEC 30, 1974	
4,367	616,149	19 36	DEC 30, 1974	
4,383	616,149	19 37	DEC 30, 1974	
4,400	616,149	19 38	DEC 30, 1974	
4,417	616,149	19 39	DEC 30, 1974	
4,433	616,180	19 40	DEC 30, 1974	END JETTING
4,450	616,180	19 41	DEC 30, 1974	
4,467	616,212	19 42	DEC 30, 1974	
4,483	616,212	19 43	DEC 30, 1974	
4,500	616,212	19 44	DEC 30, 1974	
4,517	616,212	19 45	DEC 30, 1974	
4,533	616,243	19 46	DEC 30, 1974	
4,550	616,243	19 47	DEC 30, 1974	
4,567	616,243	19 48	DEC 30, 1974	
4,583	616,274	19 49	DEC 30, 1974	
4,600	616,274	19 50	DEC 30, 1974	
4,617	616,274	19 51	DEC 30, 1974	
4,633	616,274	19 52	DEC 30, 1974	
4,650	616,274	19 53	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,667	616,274	19 54	DEC 30, 1974	
4,683	616,306	19 55	DEC 30, 1974	
4,700	616,306	19 56	DEC 30, 1974	
4,717	616,306	19 57	DEC 30, 1974	
4,733	616,337	19 58	DEC 30, 1974	
4,750	616,337	19 59	DEC 30, 1974	
4,767	616,337	20 00	DEC 30, 1974	
4,783	616,337	20 01	DEC 30, 1974	
4,800	616,368	20 02	DEC 30, 1974	
4,817	616,368	20 03	DEC 30, 1974	
4,833	616,368	20 04	DEC 30, 1974	
4,850	616,368	20 05	DEC 30, 1974	
4,867	616,368	20 06	DEC 30, 1974	
4,883	616,399	20 07	DEC 30, 1974	
4,900	616,399	20 08	DEC 30, 1974	
4,917	616,399	20 09	DEC 30, 1974	
4,933	616,399	20 10	DEC 30, 1974	
4,950	616,431	20 11	DEC 30, 1974	
4,967	616,368	20 12	DEC 30, 1974	
4,983	616,431	20 13	DEC 30, 1974	
5,000	616,462	20 14	DEC 30, 1974	
5,017	616,431	20 15	DEC 30, 1974	
5,033	616,431	20 16	DEC 30, 1974	
5,050	616,431	20 17	DEC 30, 1974	
5,067	616,493	20 18	DEC 30, 1974	
5,083	616,493	20 19	DEC 30, 1974	
5,100	616,524	20 20	DEC 30, 1974	
5,117	616,493	20 21	DEC 30, 1974	
5,133	616,556	20 22	DEC 30, 1974	
5,150	616,493	20 23	DEC 30, 1974	
5,167	616,524	20 24	DEC 30, 1974	
5,183	616,524	20 25	DEC 30, 1974	
5,200	616,556	20 26	DEC 30, 1974	
5,217	616,524	20 27	DEC 30, 1974	
5,233	616,524	20 28	DEC 30, 1974	
5,250	616,524	20 29	DEC 30, 1974	
5,267	616,556	20 30	DEC 30, 1974	
5,283	616,587	20 31	DEC 30, 1974	
5,300	616,556	20 32	DEC 30, 1974	
5,317	616,556	20 33	DEC 30, 1974	



JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,333	616,556	20 34	DEC 30, 1974	
5,350	616,556	20 35	DEC 30, 1974	
5,367	616,556	20 36	DEC 30, 1974	
5,383	616,618	20 37	DEC 30, 1974	
5,400	616,618	20 38	DEC 30, 1974	
5,417	616,587	20 39	DEC 30, 1974	
5,433	616,618	20 40	DEC 30, 1974	
5,450	616,649	20 41	DEC 30, 1974	
5,467	616,649	20 42	DEC 30, 1974	
5,483	616,618	20 43	DEC 30, 1974	
5,500	616,618	20 44	DEC 30, 1974	
5,517	616,649	20 45	DEC 30, 1974	
5,533	616,649	20 46	DEC 30, 1974	
5,550	616,618	20 47	DEC 30, 1974	
5,567	616,618	20 48	DEC 30, 1974	
5,583	616,618	20 49	DEC 30, 1974	
5,600	616,712	20 50	DEC 30, 1974	
5,617	616,681	20 51	DEC 30, 1974	
5,633	616,649	20 52	DEC 30, 1974	
5,650	616,681	20 53	DEC 30, 1974	
5,667	616,743	20 54	DEC 30, 1974	
5,683	616,681	20 55	DEC 30, 1974	
5,700	616,681	20 56	DEC 30, 1974	
5,717	616,712	20 57	DEC 30, 1974	
5,733	616,743	20 58	DEC 30, 1974	
5,750	616,743	20 59	DEC 30, 1974	
5,767	616,743	21 00	DEC 30, 1974	
5,783	616,743	21 01	DEC 30, 1974	
5,800	616,774	21 02	DEC 30, 1974	
5,817	616,712	21 03	DEC 30, 1974	
5,833	616,743	21 04	DEC 30, 1974	
5,850	616,806	21 05	DEC 30, 1974	
5,867	616,774	21 06	DEC 30, 1974	
5,883	616,743	21 07	DEC 30, 1974	
5,900	616,806	21 08	DEC 30, 1974	
5,917	616,806	21 09	DEC 30, 1974	
5,933	616,806	21 10	DEC 30, 1974	
5,950	616,806	21 11	DEC 30, 1974	
5,967	616,806	21 12	DEC 30, 1974	
5,983	616,806	21 13	DEC 30, 1974	





JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,000	616,837	21 14	DEC 30, 1974	
6,017	616,837	21 15	DEC 30, 1974	60 GPM DOWN ANNULUS
6,033	616,837	21 16	DEC 30, 1974	
6,050	616,868	21 17	DEC 30, 1974	
6,067	616,868	21 18	DEC 30, 1974	
6,083	617,056	21 19	DEC 30, 1974	
6,100	617,181	21 20	DEC 30, 1974	
6,117	622,809	21 21	DEC 30, 1974	
6,133	624,716	21 22	DEC 30, 1974	
6,150	626,248	21 23	DEC 30, 1974	
6,167	627,655	21 24	DEC 30, 1974	
6,183	628,906	21 25	DEC 30, 1974	
6,200	629,625	21 26	DEC 30, 1974	
6,217	630,344	21 27	DEC 30, 1974	
6,233	630,938	21 28	DEC 30, 1974	
6,250	631,376	21 29	DEC 30, 1974	
6,267	630,813	21 30	DEC 30, 1974	
6,283	630,438	21 31	DEC 30, 1974	
6,300	630,188	21 32	DEC 30, 1974	
6,317	630,844	21 33	DEC 30, 1974	
6,333	631,688	21 34	DEC 30, 1974	
6,350	632,439	21 35	DEC 30, 1974	
6,367	633,314	21 36	DEC 30, 1974	
6,383	634,033	21 37	DEC 30, 1974	
6,400	634,659	21 38	DEC 30, 1974	
6,417	635,284	21 39	DEC 30, 1974	
6,433	635,784	21 40	DEC 30, 1974	
6,450	636,222	21 41	DEC 30, 1974	
6,467	636,660	21 42	DEC 30, 1974	
6,483	637,097	21 43	DEC 30, 1974	
6,500	637,379	21 44	DEC 30, 1974	
6,517	637,691	21 45	DEC 30, 1974	DECLINE
6,533	637,879	21 46	DEC 30, 1974	
6,550	638,129	21 47	DEC 30, 1974	
6,567	638,317	21 48	DEC 30, 1974	
6,583	637,066	21 49	DEC 30, 1974	
6,600	634,190	21 50	DEC 30, 1974	
6,617	631,751	21 51	DEC 30, 1974	
6,633	629,781	21 52	DEC 30, 1974	
6,650	627,968	21 53	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,667	626,529	21 54	DEC 30, 1974	
6,683	625,216	21 55	DEC 30, 1974	
6,700	624,091	21 56	DEC 30, 1974	
6,717	623,215	21 57	DEC 30, 1974	
6,733	622,402	21 58	DEC 30, 1974	
6,750	621,746	21 59	DEC 30, 1974	
6,767	621,183	22 00	DEC 30, 1974	
6,783	620,714	22 01	DEC 30, 1974	
6,800	620,276	22 02	DEC 30, 1974	
6,817	619,870	22 03	DEC 30, 1974	
6,833	619,557	22 04	DEC 30, 1974	
6,850	619,338	22 05	DEC 30, 1974	
6,867	619,026	22 06	DEC 30, 1974	
6,883	618,838	22 07	DEC 30, 1974	
6,900	618,619	22 08	DEC 30, 1974	
6,917	618,525	22 09	DEC 30, 1974	
6,933	618,369	22 10	DEC 30, 1974	2 GPM INSIDE
6,950	618,244	22 11	DEC 30, 1974	DRILL PIPE
6,967	618,088	22 12	DEC 30, 1974	
6,983	618,025	22 13	DEC 30, 1974	
7,000	617,931	22 14	DEC 30, 1974	
7,017	617,838	22 15	DEC 30, 1974	
7,033	617,806	22 16	DEC 30, 1974	
7,050	617,712	22 17	DEC 30, 1974	
7,067	617,681	22 18	DEC 30, 1974	
7,083	617,587	22 19	DEC 30, 1974	
7,100	617,587	22 20	DEC 30, 1974	
7,117	617,525	22 21	DEC 30, 1974	
7,133	617,462	22 22	DEC 30, 1974	
7,150	617,400	22 23	DEC 30, 1974	
7,167	617,462	22 24	DEC 30, 1974	
7,183	617,462	22 25	DEC 30, 1974	
7,200	617,400	22 26	DEC 30, 1974	
7,217	617,400	22 27	DEC 30, 1974	
7,233	617,337	22 28	DEC 30, 1974	
7,250	617,337	22 29	DEC 30, 1974	
7,267	617,337	22 30	DEC 30, 1974	5 GPM INSIDE
7,283	617,275	22 31	DEC 30, 1974	DRILL PIPE
7,300	617,306	22 32	DEC 30, 1974	
7,317	617,337	22 33	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7,333	617,275	22 34	DEC 30, 1974	
7,350	617,275	22 35	DEC 30, 1974	
7,367	617,306	22 36	DEC 30, 1974	
7,383	617,243	22 37	DEC 30, 1974	
7,400	617,243	22 38	DEC 30, 1974	
7,417	617,243	22 39	DEC 30, 1974	
7,433	617,243	22 40	DEC 30, 1974	
7,450	617,243	22 41	DEC 30, 1974	
7,467	617,181	22 42	DEC 30, 1974	
7,483	617,181	22 43	DEC 30, 1974	
7,500	617,212	22 44	DEC 30, 1974	
7,517	617,212	22 45	DEC 30, 1974	
7,533	617,212	22 46	DEC 30, 1974	
7,550	617,181	22 47	DEC 30, 1974	
7,567	617,181	22 48	DEC 30, 1974	
7,583	617,181	22 49	DEC 30, 1974	
7,600	617,212	22 50	DEC 30, 1974	10 GPM INSIDE
7,617	617,212	22 51	DEC 30, 1974	DRILL PIPE
7,633	617,212	22 52	DEC 30, 1974	
7,650	617,212	22 53	DEC 30, 1974	
7,667	617,212	22 54	DEC 30, 1974	
7,683	617,212	22 55	DEC 30, 1974	
7,700	617,181	22 56	DEC 30, 1974	
7,717	617,243	22 57	DEC 30, 1974	
7,733	617,181	22 58	DEC 30, 1974	
7,750	617,212	22 59	DEC 30, 1974	
7,767	617,212	23 00	DEC 30, 1974	
7,783	617,212	23 01	DEC 30, 1974	
7,800	617,212	23 02	DEC 30, 1974	
7,817	617,212	23 03	DEC 30, 1974	
7,833	617,243	23 04	DEC 30, 1974	
7,850	617,243	23 05	DEC 30, 1974	
7,867	617,243	23 06	DEC 30, 1974	
7,883	617,243	23 07	DEC 30, 1974	
7,900	617,275	23 08	DEC 30, 1974	
7,917	617,243	23 09	DEC 30, 1974	
7,933	617,243	23 10	DEC 30, 1974	OVERFLOW 12
7,950	617,243	23 11	DEC 30, 1974	GPM INSIDE
7,967	617,243	23 12	DEC 30, 1974	DRILL PIPE
7,983	617,243	23 13	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
8,000	617,275	23 14	DEC 30, 1974	
8,017	617,275	23 15	DEC 30, 1974	
8,033	617,275	23 16	DEC 30, 1974	
8,050	617,306	23 17	DEC 30, 1974	
8,067	617,306	23 18	DEC 30, 1974	
8,083	617,306	23 19	DEC 30, 1974	
8,100	617,306	23 20	DEC 30, 1974	
8,117	617,337	23 21	DEC 30, 1974	
8,133	617,337	23 22	DEC 30, 1974	
8,150	617,337	23 23	DEC 30, 1974	
8,167	617,337	23 24	DEC 30, 1974	
8,183	617,400	23 25	DEC 30, 1974	
8,200	617,369	23 26	DEC 30, 1974	
8,217	617,369	23 27	DEC 30, 1974	
8,233	617,369	23 28	DEC 30, 1974	
8,250	617,369	23 29	DEC 30, 1974	
8,267	617,400	23 30	DEC 30, 1974	END OVERFLOW
8,283	617,431	23 31	DEC 30, 1974	START DECLINE
8,300	617,431	23 32	DEC 30, 1974	
8,317	617,431	23 33	DEC 30, 1974	
8,333	617,431	23 34	DEC 30, 1974	
8,350	617,431	23 35	DEC 30, 1974	
8,367	617,431	23 36	DEC 30, 1974	
8,384	617,431	23 37	DEC 30, 1974	
8,400	617,462	23 38	DEC 30, 1974	
8,417	617,462	23 39	DEC 30, 1974	
8,434	617,462	23 40	DEC 30, 1974	
8,450	617,494	23 41	DEC 30, 1974	
8,467	617,462	23 42	DEC 30, 1974	
8,484	617,494	23 43	DEC 30, 1974	
8,500	617,494	23 44	DEC 30, 1974	
8,517	617,494	23 45	DEC 30, 1974	
8,534	617,494	23 46	DEC 30, 1974	
8,550	617,494	23 47	DEC 30, 1974	
8,567	617,494	23 48	DEC 30, 1974	
8,584	617,494	23 49	DEC 30, 1974	
8,600	617,494	23 50	DEC 30, 1974	
8,617	617,494	23 51	DEC 30, 1974	
8,634	617,494	23 52	DEC 30, 1974	
8,650	617,494	23 53	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
197 DST-31 FINAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
8.667	617,525	23 54	DEC 30, 1974	
8.684	617,525	23 55	DEC 30, 1974	
8.700	617,525	23 56	DEC 30, 1974	
8.717	617,494	23 57	DEC 30, 1974	
8.734	617,525	23 58	DEC 30, 1974	
8.750	617,525	23 59	DEC 30, 1974	
8.767	617,525	00 00	DEC 31, 1974	
8.784	617,525	00 01	DEC 31, 1974	
8.800	617,587	00 02	DEC 31, 1974	
8.817	617,587	00 03	DEC 31, 1974	
8.834	617,587	00 04	DEC 31, 1974	
8.850	617,587	00 05	DEC 31, 1974	END TEST

II B-1390

532 POINTS REPORTED THIS RUN

PAGE 17



SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL 8G-17  
FIELD/LEASE      SCRGUM GULCH TRACT C-B  
COUNTY/PARISH   RIC BLANCO  
STATE             COLORADO  
TYPE OF TEST     DRILL STEM  
REFERENCE ELEV   GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 98 WITH 2500LB. ELEMENT

GAUGE DEPTH IS 1927 FT. INSIDE DRILL PIPE

PACKER SET AT 1918 FT

GROUND LEVEL REFERENCE 7036 FEET.

TEST INTERVAL IS 1918 FT PACKER

DEPTH TO 1970 FT

TOOL DID NOT OPEN ON INITIAL OPEN

HYDROSTATIC PRESSURE NOT REPORTED BECAUSE OF DST TOOL PROBLEMS.

SURFACE TIMES RECORDED DURING TEST WERE NOT FROM A COMMON TIME

BASE THEREFORE EVENTS DO NOT CORRESPOND WITH COMMENTS ON DATA SHEETS.

II B-1391

566 POINTS REPORTED THIS JOB

PAGE 1 OF 17 PAGES





JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
96 DST 31 INIT, OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	666,810	14 41	DEC 30, 1974	INITIAL OPEN

II B-1392

1 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	666,810	14 42	DEC 30, 1974	INITIAL SHUTIN
,017	666,694	14 43	DEC 30, 1974	
,033	650,848	14 44	DEC 30, 1974	
,050	649,217	14 45	DEC 30, 1974	
,067	647,061	14 46	DEC 30, 1974	
,083	646,537	14 47	DEC 30, 1974	
,100	646,246	14 48	DEC 30, 1974	
,117	646,129	14 49	DEC 30, 1974	
,133	645,955	14 50	DEC 30, 1974	
,150	645,838	14 51	DEC 30, 1974	
,167	645,896	14 52	DEC 30, 1974	
,183	645,896	14 53	DEC 30, 1974	
,200	645,896	14 54	DEC 30, 1974	
,217	645,838	14 55	DEC 30, 1974	
,233	645,780	14 56	DEC 30, 1974	
,250	645,780	14 57	DEC 30, 1974	
,267	645,780	14 58	DEC 30, 1974	
,283	645,780	14 59	DEC 30, 1974	
,300	645,780	15 00	DEC 30, 1974	
,317	645,721	15 01	DEC 30, 1974	
,333	645,721	15 02	DEC 30, 1974	
,350	645,663	15 03	DEC 30, 1974	
,367	645,721	15 04	DEC 30, 1974	
,383	645,721	15 05	DEC 30, 1974	
,400	645,721	15 06	DEC 30, 1974	
,417	645,663	15 07	DEC 30, 1974	
,433	645,663	15 08	DEC 30, 1974	
,450	645,605	15 09	DEC 30, 1974	
,467	645,605	15 10	DEC 30, 1974	
,483	645,605	15 11	DEC 30, 1974	
,500	645,663	15 12	DEC 30, 1974	
,517	645,605	15 13	DEC 30, 1974	
,533	645,605	15 14	DEC 30, 1974	END SHUTIN

II B-1393

33 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
8PG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	645,605	15 14	DEC 30, 1974	START FLOW
.017	698,036	15 15	DEC 30, 1974	
.033	648,634	15 16	DEC 30, 1974	
.050	646,887	15 17	DEC 30, 1974	
.067	647,294	15 18	DEC 30, 1974	END TOOL CYCLE
.083	131,932	15 19	DEC 30, 1974	
.100	120,271	15 20	DEC 30, 1974	
.117	142,780	15 21	DEC 30, 1974	
.133	160,299	15 22	DEC 30, 1974	
.150	180,951	15 23	DEC 30, 1974	
.167	193,597	15 24	DEC 30, 1974	
.183	203,865	15 25	DEC 30, 1974	
.200	213,984	15 26	DEC 30, 1974	
.217	223,813	15 27	DEC 30, 1974	
.233	233,642	15 28	DEC 30, 1974	
.250	243,354	15 29	DEC 30, 1974	
.267	253,007	15 30	DEC 30, 1974	
.283	262,251	15 31	DEC 30, 1974	
.300	271,671	15 32	DEC 30, 1974	
.317	280,914	15 33	DEC 30, 1974	
.333	290,041	15 34	DEC 30, 1974	
.350	299,051	15 35	DEC 30, 1974	
.367	307,768	15 36	DEC 30, 1974	
.383	316,193	15 37	DEC 30, 1974	
.400	324,676	15 38	DEC 30, 1974	
.417	333,160	15 39	DEC 30, 1974	
.433	341,233	15 40	DEC 30, 1974	
.450	349,307	15 41	DEC 30, 1974	
.467	356,971	15 42	DEC 30, 1974	
.483	364,928	15 43	DEC 30, 1974	
.500	372,826	15 44	DEC 30, 1974	
.517	380,432	15 45	DEC 30, 1974	
.533	388,096	15 46	DEC 30, 1974	
.550	395,175	15 47	DEC 30, 1974	
.567	402,488	15 48	DEC 30, 1974	
.583	409,509	15 49	DEC 30, 1974	
.600	416,529	15 50	DEC 30, 1974	
.617	423,082	15 51	DEC 30, 1974	
.633	429,869	15 52	DEC 30, 1974	
.650	436,480	15 53	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	442,857	15 54	DEC 30, 1974	
.683	449,409	15 55	DEC 30, 1974	
.700	455,552	15 56	DEC 30, 1974	
.717	461,286	15 57	DEC 30, 1974	
.733	467,195	15 58	DEC 30, 1974	
.750	472,929	15 59	DEC 30, 1974	
.767	478,370	16 00	DEC 30, 1974	
.783	484,045	16 01	DEC 30, 1974	
.800	489,369	16 02	DEC 30, 1974	
.817	494,121	16 03	DEC 30, 1974	
.833	499,490	16 04	DEC 30, 1974	
.850	504,463	16 05	DEC 30, 1974	
.867	509,085	16 06	DEC 30, 1974	
.883	513,707	16 07	DEC 30, 1974	
.900	518,270	16 08	DEC 30, 1974	
.917	522,775	16 09	DEC 30, 1974	
.933	527,104	16 10	DEC 30, 1974	
.950	531,492	16 11	DEC 30, 1974	
.967	535,646	16 12	DEC 30, 1974	
.983	539,742	16 13	DEC 30, 1974	
1,000	543,603	16 14	DEC 30, 1974	
1,017	547,581	16 15	DEC 30, 1974	
1,033	551,267	16 16	DEC 30, 1974	
1,050	554,953	16 17	DEC 30, 1974	
1,067	558,639	16 18	DEC 30, 1974	
1,083	562,032	16 19	DEC 30, 1974	
1,100	565,308	16 20	DEC 30, 1974	
1,117	568,526	16 21	DEC 30, 1974	
1,133	571,861	16 22	DEC 30, 1974	
1,150	574,962	16 23	DEC 30, 1974	
1,167	577,594	16 24	DEC 30, 1974	
1,183	580,403	16 25	DEC 30, 1974	
1,200	583,328	16 26	DEC 30, 1974	
1,217	586,078	16 27	DEC 30, 1974	
1,233	588,593	16 28	DEC 30, 1974	
1,250	591,051	16 29	DEC 30, 1974	
1,267	593,391	16 30	DEC 30, 1974	
1,283	595,673	16 31	DEC 30, 1974	
1,300	597,454	16 32	DEC 30, 1974	
1,317	599,943	16 33	DEC 30, 1974	



JOB NUMBER  
SPC-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	601,874	16 34	DEC 30, 1974	
1,350	603,629	16 35	DEC 30, 1974	
1,367	605,443	16 36	DEC 30, 1974	
1,383	606,964	16 37	DEC 30, 1974	
1,400	608,778	16 38	DEC 30, 1974	
1,417	610,357	16 39	DEC 30, 1974	
1,433	611,933	16 40	DEC 30, 1974	
1,450	613,389	16 41	DEC 30, 1974	
1,467	614,729	16 42	DEC 30, 1974	
1,483	616,069	16 43	DEC 30, 1974	
1,500	617,409	16 44	DEC 30, 1974	
1,517	618,632	16 45	DEC 30, 1974	
1,533	619,914	16 46	DEC 30, 1974	
1,550	621,254	16 47	DEC 30, 1974	
1,567	622,419	16 48	DEC 30, 1974	
1,583	623,468	16 49	DEC 30, 1974	
1,600	624,341	16 50	DEC 30, 1974	
1,617	625,215	16 51	DEC 30, 1974	
1,633	626,147	16 52	DEC 30, 1974	
1,650	626,963	16 53	DEC 30, 1974	
1,667	627,779	16 54	DEC 30, 1974	
1,683	628,652	16 55	DEC 30, 1974	
1,700	629,410	16 56	DEC 30, 1974	
1,717	630,051	16 57	DEC 30, 1974	
1,733	630,750	16 58	DEC 30, 1974	
1,750	631,332	16 59	DEC 30, 1974	
1,767	631,973	17 00	DEC 30, 1974	
1,783	632,556	17 01	DEC 30, 1974	
1,800	633,138	17 02	DEC 30, 1974	
1,817	633,604	17 03	DEC 30, 1974	
1,833	634,129	17 04	DEC 30, 1974	
1,850	634,653	17 05	DEC 30, 1974	
1,867	635,061	17 06	DEC 30, 1974	
1,883	635,468	17 07	DEC 30, 1974	
1,900	635,934	17 08	DEC 30, 1974	
1,917	636,284	17 09	DEC 30, 1974	
1,933	636,692	17 10	DEC 30, 1974	
1,950	637,100	17 11	DEC 30, 1974	
1,967	637,391	17 12	DEC 30, 1974	
1,983	637,740	17 13	DEC 30, 1974	



JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,000	638,090	17 14	DEC 30, 1974	
2,017	638,381	17 15	DEC 30, 1974	
2,033	638,614	17 16	DEC 30, 1974	
2,050	638,847	17 17	DEC 30, 1974	
2,067	639,139	17 18	DEC 30, 1974	
2,083	639,430	17 19	DEC 30, 1974	
2,100	639,605	17 20	DEC 30, 1974	
2,117	639,896	17 21	DEC 30, 1974	
2,133	640,071	17 22	DEC 30, 1974	
2,150	640,362	17 23	DEC 30, 1974	
2,167	640,653	17 24	DEC 30, 1974	
2,183	640,828	17 25	DEC 30, 1974	
2,200	641,061	17 26	DEC 30, 1974	
2,217	641,236	17 27	DEC 30, 1974	
2,233	641,352	17 28	DEC 30, 1974	
2,250	641,585	17 29	DEC 30, 1974	
2,267	641,760	17 30	DEC 30, 1974	
2,283	641,993	17 31	DEC 30, 1974	
2,300	642,110	17 32	DEC 30, 1974	
2,317	642,226	17 33	DEC 30, 1974	
2,333	642,401	17 34	DEC 30, 1974	
2,350	642,517	17 35	DEC 30, 1974	
2,367	642,692	17 36	DEC 30, 1974	
2,383	642,809	17 37	DEC 30, 1974	
2,400	642,983	17 38	DEC 30, 1974	
2,417	643,100	17 39	DEC 30, 1974	
2,433	643,216	17 40	DEC 30, 1974	
2,450	643,275	17 41	DEC 30, 1974	
2,467	643,391	17 42	DEC 30, 1974	
2,483	643,450	17 43	DEC 30, 1974	
2,500	643,624	17 44	DEC 30, 1974	
2,517	643,683	17 45	DEC 30, 1974	
2,533	643,857	17 46	DEC 30, 1974	
2,550	643,916	17 47	DEC 30, 1974	
2,567	643,974	17 48	DEC 30, 1974	
2,583	644,032	17 49	DEC 30, 1974	
2,600	644,149	17 50	DEC 30, 1974	
2,617	644,265	17 51	DEC 30, 1974	
2,633	644,323	17 52	DEC 30, 1974	
2,650	644,440	17 53	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	644,498	17 54	DEC 30, 1974	
2,683	644,498	17 55	DEC 30, 1974	
2,700	644,615	17 56	DEC 30, 1974	
2,717	644,731	17 57	DEC 30, 1974	
2,733	644,789	17 58	DEC 30, 1974	
2,750	644,789	17 59	DEC 30, 1974	
2,767	644,906	18 00	DEC 30, 1974	
2,783	644,964	18 01	DEC 30, 1974	
2,800	645,022	18 02	DEC 30, 1974	
2,817	645,081	18 03	DEC 30, 1974	
2,833	645,081	18 04	DEC 30, 1974	
2,850	645,139	18 05	DEC 30, 1974	
2,867	645,197	18 06	DEC 30, 1974	
2,883	645,255	18 07	DEC 30, 1974	
2,900	645,314	18 08	DEC 30, 1974	
2,917	645,372	18 09	DEC 30, 1974	
2,933	645,430	18 10	DEC 30, 1974	
2,950	645,488	18 11	DEC 30, 1974	
2,967	645,488	18 12	DEC 30, 1974	
2,983	645,488	18 13	DEC 30, 1974	
3,000	645,547	18 14	DEC 30, 1974	
3,017	645,605	18 15	DEC 30, 1974	
3,033	645,721	18 16	DEC 30, 1974	
3,050	646,188	18 17	DEC 30, 1974	
3,067	646,246	18 18	DEC 30, 1974	
3,083	646,770	18 19	DEC 30, 1974	
3,100	646,712	18 20	DEC 30, 1974	
3,117	647,120	18 21	DEC 30, 1974	
3,133	647,120	18 22	DEC 30, 1974	
3,150	647,527	18 23	DEC 30, 1974	
3,167	647,935	18 24	DEC 30, 1974	
3,183	647,819	18 25	DEC 30, 1974	
3,200	648,110	18 26	DEC 30, 1974	
3,217	648,052	18 27	DEC 30, 1974	
3,233	648,401	18 28	DEC 30, 1974	
3,250	648,227	18 29	DEC 30, 1974	
3,267	648,168	18 30	DEC 30, 1974	
3,283	648,052	18 31	DEC 30, 1974	
3,300	648,343	18 32	DEC 30, 1974	
3,317	648,227	18 33	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3.333	648,110	18 34	DEC 30, 1974	
3.350	648,052	18 35	DEC 30, 1974	
3.367	647,993	18 36	DEC 30, 1974	
3.383	647,877	18 37	DEC 30, 1974	
3.400	647,819	18 38	DEC 30, 1974	
3.417	647,760	18 39	DEC 30, 1974	
3.433	647,702	18 40	DEC 30, 1974	START JETTING
3.450	647,586	18 41	DEC 30, 1974	
3.467	647,586	18 42	DEC 30, 1974	
3.483	659,062	18 43	DEC 30, 1974	
3.500	680,093	18 44	DEC 30, 1974	
3.517	611,875	18 45	DEC 30, 1974	
3.533	586,253	18 46	DEC 30, 1974	
3.550	587,365	18 47	DEC 30, 1974	
3.567	608,895	18 48	DEC 30, 1974	
3.583	627,196	18 49	DEC 30, 1974	
3.600	619,390	18 50	DEC 30, 1974	
3.617	615,661	18 51	DEC 30, 1974	
3.633	614,496	18 52	DEC 30, 1974	
3.650	613,564	18 53	DEC 30, 1974	
3.667	613,331	18 54	DEC 30, 1974	
3.683	612,982	18 55	DEC 30, 1974	
3.700	612,982	18 56	DEC 30, 1974	
3.717	612,865	18 57	DEC 30, 1974	
3.733	612,982	18 58	DEC 30, 1974	
3.750	613,098	18 59	DEC 30, 1974	
3.767	613,040	19 00	DEC 30, 1974	
3.783	612,923	19 01	DEC 30, 1974	
3.800	612,865	19 02	DEC 30, 1974	
3.817	612,865	19 03	DEC 30, 1974	
3.833	612,865	19 04	DEC 30, 1974	
3.850	612,749	19 05	DEC 30, 1974	
3.867	612,923	19 06	DEC 30, 1974	
3.883	612,923	19 07	DEC 30, 1974	
3.900	612,923	19 08	DEC 30, 1974	
3.917	612,865	19 09	DEC 30, 1974	
3.933	612,749	19 10	DEC 30, 1974	
3.950	612,341	19 11	DEC 30, 1974	
3.967	612,166	19 12	DEC 30, 1974	
3.983	612,166	19 13	DEC 30, 1974	



JOB NUMBER  
BPG-11210-CC

DATE OF JOH  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.000	612,282	19 14	DEC 30, 1974	
4.017	612,632	19 15	DEC 30, 1974	
4.033	612,632	19 16	DEC 30, 1974	
4.050	612,399	19 17	DEC 30, 1974	
4.067	612,282	19 18	DEC 30, 1974	
4.083	611,642	19 19	DEC 30, 1974	
4.100	611,001	19 20	DEC 30, 1974	
4.117	611,642	19 21	DEC 30, 1974	
4.133	611,991	19 22	DEC 30, 1974	
4.150	611,991	19 23	DEC 30, 1974	
4.167	611,933	19 24	DEC 30, 1974	
4.183	611,933	19 25	DEC 30, 1974	
4.200	611,758	19 26	DEC 30, 1974	
4.217	611,758	19 27	DEC 30, 1974	
4.233	611,700	19 28	DEC 30, 1974	
4.250	611,700	19 29	DEC 30, 1974	
4.267	611,816	19 30	DEC 30, 1974	
4.283	611,700	19 31	DEC 30, 1974	
4.300	611,700	19 32	DEC 30, 1974	
4.317	611,758	19 33	DEC 30, 1974	
4.333	611,758	19 34	DEC 30, 1974	
4.350	611,758	19 35	DEC 30, 1974	
4.367	611,642	19 36	DEC 30, 1974	
4.383	611,642	19 37	DEC 30, 1974	
4.400	611,758	19 38	DEC 30, 1974	
4.417	611,700	19 39	DEC 30, 1974	
4.433	611,642	19 40	DEC 30, 1974	END JETTING
4.450	611,583	19 41	DEC 30, 1974	
4.467	611,467	19 42	DEC 30, 1974	
4.483	611,583	19 43	DEC 30, 1974	
4.500	611,467	19 44	DEC 30, 1974	
4.517	611,467	19 45	DEC 30, 1974	
4.533	611,409	19 46	DEC 30, 1974	
4.550	611,409	19 47	DEC 30, 1974	
4.567	611,409	19 48	DEC 30, 1974	
4.583	580,461	19 49	DEC 30, 1974	
4.600	581,397	19 50	DEC 30, 1974	
4.617	586,604	19 51	DEC 30, 1974	
4.633	590,583	19 52	DEC 30, 1974	
4.650	593,976	19 53	DEC 30, 1974	





JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 LST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,667	597,194	19 54	DEC 30, 1974	
4,683	600,002	19 55	DEC 30, 1974	
4,700	602,459	19 56	DEC 30, 1974	
4,717	604,682	19 57	DEC 30, 1974	
4,733	606,730	19 58	DEC 30, 1974	
4,750	608,895	19 59	DEC 30, 1974	
4,767	610,942	20 00	DEC 30, 1974	
4,783	612,865	20 01	DEC 30, 1974	
4,800	614,671	20 02	DEC 30, 1974	
4,817	616,419	20 03	DEC 30, 1974	
4,833	618,166	20 04	DEC 30, 1974	
4,850	619,798	20 05	DEC 30, 1974	
4,867	621,429	20 06	DEC 30, 1974	
4,883	622,769	20 07	DEC 30, 1974	
4,900	624,108	20 08	DEC 30, 1974	
4,917	625,390	20 09	DEC 30, 1974	
4,933	626,380	20 10	DEC 30, 1974	
4,950	627,254	20 11	DEC 30, 1974	
4,967	628,361	20 12	DEC 30, 1974	
4,983	629,410	20 13	DEC 30, 1974	
5,000	630,400	20 14	DEC 30, 1974	
5,017	630,866	20 15	DEC 30, 1974	
5,033	631,624	20 16	DEC 30, 1974	
5,050	632,090	20 17	DEC 30, 1974	
5,067	632,439	20 18	DEC 30, 1974	
5,083	632,847	20 19	DEC 30, 1974	
5,100	633,080	20 20	DEC 30, 1974	
5,117	633,546	20 21	DEC 30, 1974	
5,133	634,303	20 22	DEC 30, 1974	
5,150	635,002	20 23	DEC 30, 1974	
5,167	635,585	20 24	DEC 30, 1974	
5,183	636,167	20 25	DEC 30, 1974	
5,200	636,808	20 26	DEC 30, 1974	
5,217	637,274	20 27	DEC 30, 1974	
5,233	637,799	20 28	DEC 30, 1974	
5,250	638,265	20 29	DEC 30, 1974	
5,267	638,847	20 30	DEC 30, 1974	
5,283	639,255	20 31	DEC 30, 1974	
5,300	639,605	20 32	DEC 30, 1974	
5,317	640,012	20 33	DEC 30, 1974	



JOB NUMBER  
BPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,333	640,304	20 34	DEC 30, 1974	
5,350	640,653	20 35	DEC 30, 1974	
5,367	641,003	20 36	DEC 30, 1974	
5,383	641,352	20 37	DEC 30, 1974	
5,400	641,644	20 38	DEC 30, 1974	
5,417	641,877	20 39	DEC 30, 1974	
5,433	642,110	20 40	DEC 30, 1974	
5,450	642,343	20 41	DEC 30, 1974	
5,467	642,634	20 42	DEC 30, 1974	
5,483	642,867	20 43	DEC 30, 1974	
5,500	643,042	20 44	DEC 30, 1974	
5,517	643,275	20 45	DEC 30, 1974	
5,533	643,450	20 46	DEC 30, 1974	
5,550	643,624	20 47	DEC 30, 1974	
5,567	643,799	20 48	DEC 30, 1974	
5,583	643,974	20 49	DEC 30, 1974	
5,600	644,090	20 50	DEC 30, 1974	
5,617	644,207	20 51	DEC 30, 1974	
5,633	644,323	20 52	DEC 30, 1974	
5,650	644,440	20 53	DEC 30, 1974	
5,667	644,615	20 54	DEC 30, 1974	
5,683	644,731	20 55	DEC 30, 1974	
5,700	644,848	20 56	DEC 30, 1974	
5,717	644,964	20 57	DEC 30, 1974	
5,733	645,081	20 58	DEC 30, 1974	
5,750	645,197	20 59	DEC 30, 1974	
5,767	645,255	21 00	DEC 30, 1974	
5,783	645,314	21 01	DEC 30, 1974	
5,800	645,430	21 02	DEC 30, 1974	
5,817	645,488	21 03	DEC 30, 1974	
5,833	645,547	21 04	DEC 30, 1974	
5,850	645,603	21 05	DEC 30, 1974	
5,867	645,721	21 06	DEC 30, 1974	
5,883	645,780	21 07	DEC 30, 1974	
5,900	645,838	21 08	DEC 30, 1974	
5,917	645,896	21 09	DEC 30, 1974	
5,933	645,955	21 10	DEC 30, 1974	
5,950	646,071	21 11	DEC 30, 1974	
5,967	646,071	21 12	DEC 30, 1974	
5,983	646,188	21 13	DEC 30, 1974	



JOB NUMBER  
8PG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,000	646,246	21 14	DEC 30, 1974	
6,017	646,246	21 15	DEC 30, 1974	60 GPM DOWN ANNULUS
6,033	646,362	21 16	DEC 30, 1974	
6,050	646,362	21 17	DEC 30, 1974	
6,067	646,479	21 18	DEC 30, 1974	
6,083	646,479	21 19	DEC 30, 1974	
6,100	646,537	21 20	DEC 30, 1974	
6,117	646,595	21 21	DEC 30, 1974	
6,133	646,595	21 22	DEC 30, 1974	
6,150	646,654	21 23	DEC 30, 1974	
6,167	646,712	21 24	DEC 30, 1974	
6,183	646,770	21 25	DEC 30, 1974	
6,200	646,828	21 26	DEC 30, 1974	
6,217	646,828	21 27	DEC 30, 1974	
6,233	646,828	21 28	DEC 30, 1974	
6,250	646,828	21 29	DEC 30, 1974	
6,267	646,887	21 30	DEC 30, 1974	
6,283	646,945	21 31	DEC 30, 1974	
6,300	646,887	21 32	DEC 30, 1974	
6,317	646,945	21 33	DEC 30, 1974	
6,333	647,003	21 34	DEC 30, 1974	
6,350	647,003	21 35	DEC 30, 1974	
6,367	646,945	21 36	DEC 30, 1974	
6,383	647,003	21 37	DEC 30, 1974	
6,400	647,061	21 38	DEC 30, 1974	
6,417	647,061	21 39	DEC 30, 1974	
6,433	647,120	21 40	DEC 30, 1974	
6,450	647,120	21 41	DEC 30, 1974	
6,467	647,120	21 42	DEC 30, 1974	
6,483	647,120	21 43	DEC 30, 1974	
6,500	647,120	21 44	DEC 30, 1974	
6,517	647,120	21 45	DEC 30, 1974	DECLINE
6,533	647,178	21 46	DEC 30, 1974	
6,550	647,236	21 47	DEC 30, 1974	
6,567	647,178	21 48	DEC 30, 1974	
6,583	647,178	21 49	DEC 30, 1974	
6,600	647,294	21 50	DEC 30, 1974	
6,617	647,294	21 51	DEC 30, 1974	
6,633	647,294	21 52	DEC 30, 1974	
6,650	647,294	21 53	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6.667	647,294	21 54	DEC 30,1974	
6.683	647,353	21 55	DEC 30,1974	
6.700	647,353	21 56	DEC 30,1974	
6.717	647,353	21 57	DEC 30,1974	
6.733	647,353	21 58	DEC 30,1974	
6.750	647,353	21 59	DEC 30,1974	
6.767	647,469	22 00	DEC 30,1974	
6.783	647,353	22 01	DEC 30,1974	
6.800	647,469	22 02	DEC 30,1974	
6.817	647,469	22 03	DEC 30,1974	
6.833	647,411	22 04	DEC 30,1974	
6.850	647,469	22 05	DEC 30,1974	
6.867	647,527	22 06	DEC 30,1974	
6.883	647,527	22 07	DEC 30,1974	
6.900	647,527	22 08	DEC 30,1974	
6.917	647,527	22 09	DEC 30,1974	
6.933	647,527	22 10	DEC 30,1974	2 GPM INSIDE
6.950	647,527	22 11	DEC 30,1974	DRILL PIPE
6.967	647,586	22 12	DEC 30,1974	
6.983	647,586	22 13	DEC 30,1974	
7.000	647,586	22 14	DEC 30,1974	
7.017	647,586	22 15	DEC 30,1974	
7.033	647,586	22 16	DEC 30,1974	
7.050	648,693	22 17	DEC 30,1974	
7.067	652,071	22 18	DEC 30,1974	
7.083	655,159	22 19	DEC 30,1974	
7.100	658,188	22 20	DEC 30,1974	
7.117	660,810	22 21	DEC 30,1974	
7.133	663,257	22 22	DEC 30,1974	
7.150	665,762	22 23	DEC 30,1974	
7.167	668,034	22 24	DEC 30,1974	
7.183	670,247	22 25	DEC 30,1974	
7.200	672,286	22 26	DEC 30,1974	
7.217	674,209	22 27	DEC 30,1974	
7.233	676,189	22 28	DEC 30,1974	
7.250	678,054	22 29	DEC 30,1974	
7.267	679,801	22 30	DEC 30,1974	5 GPM INSIDE
7.283	681,316	22 31	DEC 30,1974	DRILL PIPE
7.300	682,831	22 32	DEC 30,1974	
7.317	684,345	22 33	DEC 30,1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7,333	685,802	22 34	DEC 30, 1974	
7,350	687,200	22 35	DEC 30, 1974	
7,367	690,054	22 36	DEC 30, 1974	
7,383	693,492	22 37	DEC 30, 1974	
7,400	696,637	22 38	DEC 30, 1974	
7,417	699,375	22 39	DEC 30, 1974	
7,433	702,230	22 40	DEC 30, 1974	
7,450	705,026	22 41	DEC 30, 1974	
7,467	707,473	22 42	DEC 30, 1974	
7,483	709,978	22 43	DEC 30, 1974	
7,500	712,425	22 44	DEC 30, 1974	
7,517	714,872	22 45	DEC 30, 1974	
7,533	716,969	22 46	DEC 30, 1974	
7,550	719,299	22 47	DEC 30, 1974	
7,567	721,454	22 48	DEC 30, 1974	
7,583	723,726	22 49	DEC 30, 1974	
7,600	725,707	22 50	DEC 30, 1974	10 GPM INSIDE
7,617	727,571	22 51	DEC 30, 1974	DRILL PIPE
7,633	729,494	22 52	DEC 30, 1974	
7,650	731,300	22 53	DEC 30, 1974	
7,667	732,989	22 54	DEC 30, 1974	
7,683	735,203	22 55	DEC 30, 1974	
7,700	744,349	22 56	DEC 30, 1974	
7,717	752,680	22 57	DEC 30, 1974	
7,733	760,661	22 58	DEC 30, 1974	
7,750	768,292	22 59	DEC 30, 1974	
7,767	775,516	23 00	DEC 30, 1974	
7,783	782,449	23 01	DEC 30, 1974	
7,800	789,090	23 02	DEC 30, 1974	
7,817	795,382	23 03	DEC 30, 1974	
7,833	801,673	23 04	DEC 30, 1974	
7,850	807,907	23 05	DEC 30, 1974	
7,867	813,441	23 06	DEC 30, 1974	
7,883	819,150	23 07	DEC 30, 1974	
7,900	766,253	23 08	DEC 30, 1974	
7,917	771,263	23 09	DEC 30, 1974	
7,933	776,390	23 10	DEC 30, 1974	OVERFLOW 12
7,950	781,167	23 11	DEC 30, 1974	GPM INSIDE
7,967	785,944	23 12	DEC 30, 1974	DRILL PIPE
7,983	790,430	23 13	DEC 30, 1974	



JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
98 DST-31 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
8,000	809,188	23 14	DEC 30, 1974	
8,017	806,450	23 15	DEC 30, 1974	
8,033	811,868	23 16	DEC 30, 1974	
8,050	811,985	23 17	DEC 30, 1974	
8,067	811,926	23 18	DEC 30, 1974	
8,083	811,985	23 19	DEC 30, 1974	
8,100	811,285	23 20	DEC 30, 1974	
8,117	813,790	23 21	DEC 30, 1974	
8,133	814,024	23 22	DEC 30, 1974	
8,150	814,257	23 23	DEC 30, 1974	
8,167	872,513	23 24	DEC 30, 1974	
8,183	872,513	23 25	DEC 30, 1974	
8,200	872,513	23 26	DEC 30, 1974	
8,217	872,454	23 27	DEC 30, 1974	
8,233	872,346	23 28	DEC 30, 1974	
8,250	872,454	23 29	DEC 30, 1974	
8,267	872,454	23 30	DEC 30, 1974	END OVERFLOW
8,283	872,454	23 31	DEC 30, 1974	START DECLINE
8,300	872,163	23 32	DEC 30, 1974	
8,317	861,269	23 33	DEC 30, 1974	
8,333	853,113	23 34	DEC 30, 1974	
8,350	845,831	23 35	DEC 30, 1974	
8,367	838,782	23 36	DEC 30, 1974	
8,384	831,675	23 37	DEC 30, 1974	
8,400	825,558	23 38	DEC 30, 1974	
8,417	819,500	23 39	DEC 30, 1974	
8,434	813,557	23 40	DEC 30, 1974	
8,450	808,023	23 41	DEC 30, 1974	
8,467	802,139	23 42	DEC 30, 1974	
8,484	796,780	23 43	DEC 30, 1974	
8,500	791,770	23 44	DEC 30, 1974	
8,517	787,051	23 45	DEC 30, 1974	
8,534	782,332	23 46	DEC 30, 1974	
8,550	778,021	23 47	DEC 30, 1974	
8,567	773,710	23 48	DEC 30, 1974	
8,584	769,516	23 49	DEC 30, 1974	
8,600	765,205	23 50	DEC 30, 1974	
8,617	761,418	23 51	DEC 30, 1974	
8,634	757,515	23 52	DEC 30, 1974	
8,650	753,845	23 53	DEC 30, 1974	





JOB NUMBER  
SPG-11210-CC

DATE OF JOB  
DECEMBER 30 1974

GAUGE/RUN NUMBER  
90 DST-31 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
8,667	750,524	23 54	DEC 30, 1974	
8,684	747,262	23 55	DEC 30, 1974	
8,700	744,174	23 56	DEC 30, 1974	
8,717	741,087	23 57	DEC 30, 1974	
8,734	737,941	23 58	DEC 30, 1974	
8,750	735,028	23 59	DEC 30, 1974	
8,767	732,348	00 00	DEC 31, 1974	
8,784	729,843	00 01	DEC 31, 1974	
8,800	727,222	00 02	DEC 31, 1974	
8,817	724,717	00 03	DEC 31, 1974	
8,834	722,270	00 04	DEC 31, 1974	
8,850	674,850	00 05	DEC 31, 1974	END TEST

II B-1407

532 POINTS REPORTED THIS RUN

PAGE 17



JOHNSTON

Schlumberger

technical  
report

II B-1408

F.R. #09084 C



## EQUIPMENT &amp; HOLE DATA

[illegible]

Type Test	M.F.E. OPEN HOLE		
Formation Tested	GREEN RIVER		
Elevation	7036		Ft.
Net Productive Interval	52		Ft.
Estimated Porosity	-		%
All Depths Measured From	GROUND LEVEL		
Total Depth	2020		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	297'	I.D.	-
Drill Pipe Length	1618'	I.D.	-
Packer Depth(s)	1964 & 1968		
			Ft.

### MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface  
 Recovery: Cu. Ft. Gas \_\_\_\_\_  
               cc. Oil \_\_\_\_\_  
               cc. Water \_\_\_\_\_  
               cc. Mud \_\_\_\_\_  
               Tot. Liquid cc. \_\_\_\_\_  
 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm

## MUD DATA

Mud Type	WATER FOAM	Wt.	-	
Viscosity	-	Water Loss	-	C.C.
Resist. of Mud	- @ - °F;	of Infiltrate	- @ - °F	
Chloride Content	-			PPM

[illegible]

Remarks:

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH  
Well FEDERAL S. G. #17 Location 436' FWL 181' FSL SEC. 16-3S-96W  
Test Interval 1968' TO 2020' Test # 32 Date 1-1-75

County RIO BLANCO State COLORADO II B-1409  
Technician BURNS (VERNAL) Test Approved By MR. ALLEN D. WALLER

Field Report No. 09084 C  
No. Reports Requested 14(13x)





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-		652.5	645.0
PACKER WAS SET	2	-		658.2	649.0
TOOL OPENED	3	0310	0	92.3	79.9
CLOSED FOR INITIAL SHUT-IN	4	0312	2	112.0	83.8
			4	416.1	423.4
			6	576.5	588.6
			8	583.6	583.4
			10	587.8	582.1
			12	587.8	580.8
			14	587.8	580.8
			16	587.8	580.8
			18	587.8	580.8
			20	587.8	580.8
			22	589.2	583.4
			24	589.2	583.4
			26	590.6	583.4
			28	590.6	583.4
			30	590.6	583.4
			32	590.6	583.4
			34	592.0	583.4
INITIAL SHUT-IN	5	0345	35	592.0	586.0
TOOL RE-OPENED	6	0346	36	131.8	132.3
			38	133.2	133.6
			40	133.2	133.6
			42	134.6	133.6
			44	134.6	133.6
			46	134.6	133.6
			48	134.6	133.6
			50	136.0	135.0
			52	136.0	135.0
			54	136.0	135.0
			56	136.0	135.0
			58	136.0	135.0
			60	136.0	135.0
			62	136.0	135.0
			64	136.0	135.0
			66	136.0	135.0
			68	136.0	135.0
			70	136.0	135.0
			72	136.0	135.0
			74	136.0	135.0
			76	136.0	136.3
			78	137.4	136.3
			80	137.4	136.3
			82	137.4	136.3
			84	137.4	136.3
			86	137.4	136.3
			88	137.4	136.3
			90	137.4	136.3
			92	137.4	136.3
			94	137.4	136.3
			96	137.4	137.6
			98	137.4	137.6
			100	137.4	137.6



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
			102	137.4	137.6
			104	137.4	137.6
			106	137.4	137.6
			108	137.4	137.6
			110	137.4	137.6
			112	138.8	137.6
			114	138.8	137.6
			116	138.8	137.6
			118	138.8	137.6
			120	138.8	137.6
			122	138.8	137.6
			124	138.8	137.6
			126	138.8	137.6
			128	138.8	138.9
			130	138.8	138.9
			132	138.8	138.9
			134	138.8	138.9
			136	138.8	138.9
			138	138.8	138.9
			140	138.8	138.9
			142	138.8	138.9
			144	138.8	138.9
			146	138.8	138.9
			148	138.8	138.9
			150	138.8	138.9
			152	138.8	138.9
			154	138.8	138.9
			156	138.8	138.9
			158	138.8	140.2
			160	138.8	140.2
			162	140.2	140.2
			164	140.2	140.2
			166	140.2	140.2
			168	140.2	140.2
			170	140.2	140.2
			172	140.2	140.2
			174	140.2	140.2
			176	140.2	140.2
			178	140.2	140.2
			180	140.2	140.2
			182	140.2	140.2
			184	140.2	140.2
			186	140.2	140.2
			188	140.2	140.2
			190	140.2	141.5
			192	140.2	141.5
			194	140.2	141.5
			196	140.2	141.5
			198	140.2	141.5
			200	140.2	141.5
			202	140.2	141.5
		II B-1411	204	140.2	141.5
			206	140.2	141.5
			208	140.2	141.5
			210	140.2	141.5



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
			212	140.2	141.5
			214	141.6	141.5
			216	141.6	141.5
			218	141.6	141.5
			220	141.6	141.5
			222	141.6	141.5
			224	141.6	141.5
			226	141.6	141.5
			228	141.6	142.8
			230	141.6	142.8
			232	141.6	142.8
			234	141.6	142.8
			236	141.6	142.8
			238	141.6	142.8
			240	141.6	142.8
			242	141.6	142.8
			244	141.6	142.8
			246	141.6	142.8
			248	141.6	142.8
			250	141.6	142.8
			252	141.6	142.8
			254	141.6	142.8
			256	141.6	142.8
			258	141.6	144.1
			260	141.6	144.1
			262	141.6	144.1
			264	141.6	144.1
			266	141.6	144.1
			268	141.6	144.1
			270	141.6	144.1
			272	141.6	144.1
			274	141.6	144.1
			276	141.6	144.1
			278	141.6	144.1
			280	141.6	144.1
			282	141.6	144.1
			284	141.6	144.1
			286	141.6	144.1
			288	141.6	144.1
			290	143.0	144.1
			292	143.0	144.1
			294	143.0	144.1
			296	143.0	144.1
			298	143.0	144.1
			300	143.0	145.5
			302	143.0	145.5
			304	143.0	145.5
			306	143.0	145.5
			308	143.0	145.5
			310	143.0	145.5
			312	143.0	145.5
		II B-1412	314	143.0	145.5
			316	143.0	145.5
			318	143.0	145.5
			320	143.0	145.5





## FIELD REPORT #09084 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
			322	144.4	145.5
			324	144.4	145.5
			326	144.4	145.5
			328	144.4	145.5
STARTED INJECTION - 2 GAL./MIN.	7	0829	329	144.4	145.5
			330	150.0	148.1
			332	159.9	157.3
			334	171.2	166.4
			336	181.0	175.6
			338	190.9	186.1
			340	206.3	199.2
			342	219.0	212.3
			344	234.5	228.1
			346	248.6	241.2
INJECTING 5 GAL./MIN.			348	262.6	255.6
			350	276.7	271.3
			352	289.4	284.4
			354	304.9	297.6
			356	320.4	312.0
			358	341.5	326.4
			360	371.0	339.5
INJECTING 11 GAL./MIN.	8	0911	361	372.4	343.4
			362	383.7	367.0
			364	417.5	396.0
			366	445.6	427.4
			368	475.2	457.5
			370	504.7	487.7
			372	535.7	515.2
			374	565.3	546.7
INJECTING 20 GAL./MIN.	9	0925	375	569.5	562.4
			376	586.4	571.6
			378	614.5	597.8
			380	646.9	626.7
			382	677.9	663.4
			384	729.9	710.6
			386	767.9	753.9
			388	807.5	798.4
			390	841.1	837.8
FINISHED INJECTION	10	0941	391	853.8	849.6
			392	855.2	849.6
			394	858.0	850.9
			396	856.6	849.6
			398	855.2	849.6
			400	853.8	848.3
			402	853.8	848.3
			404	853.8	848.3
			406	853.8	848.3
			408	853.8	848.3
		II B-1413	410	852.4	848.3
			412	852.4	846.9
			414	852.4	846.9
			416	851.0	846.9



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
			418	851.0	846.9
			420	851.0	845.6
			422	851.0	845.6
			424	851.0	845.6
			426	851.0	845.6
CLOSED TOOL - PULLED					
PACKER LOOSE	11	1018	428	851.0	845.6
FINAL HYDROSTATIC	12	-	-	656.7	652.9

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2800#	2650#
DEPTH:	1969'	1943'
INSTRUMENT OPENING:	OUTSIDE	INSIDE





FIELD REPORT NO.

09084 C

CAPACITY

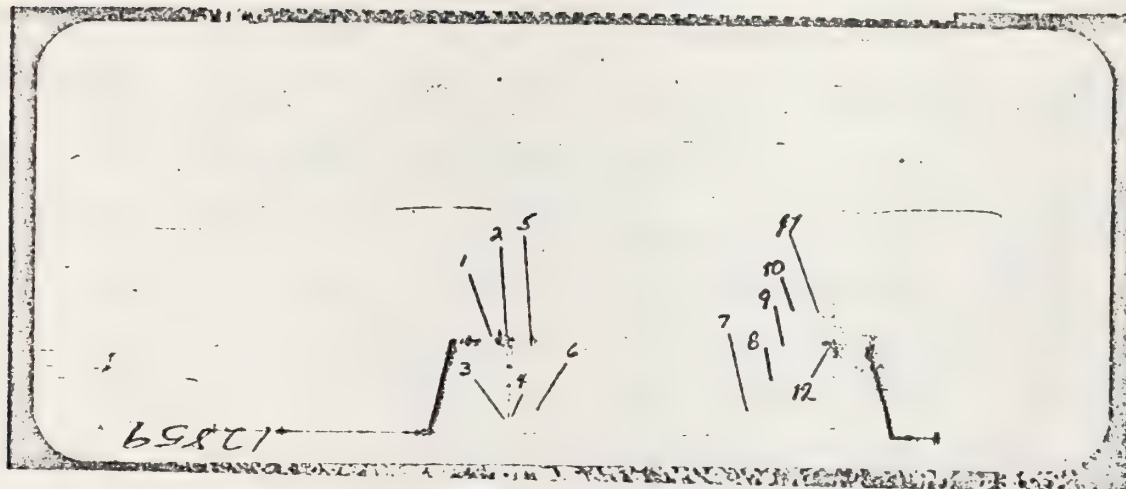
2800 #

RECORDER NO.

4097 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09084 C

CAPACITY

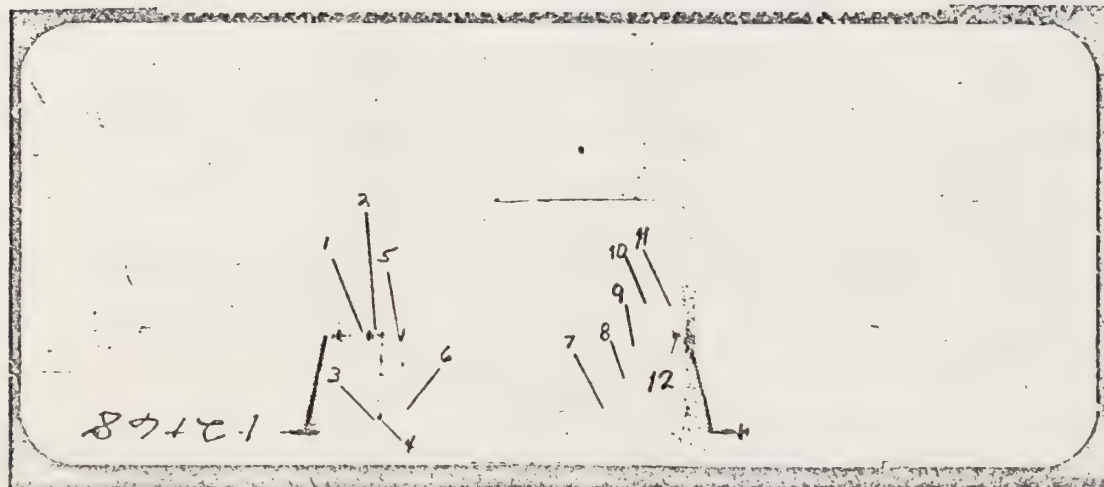
2650#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+







Job No. SC1121000 Date 12/31/74 Run 1257-32 Office CIN-6-2  
 Customer USCO FT 124 Location Seaboard Gulf 11  
 State CA County/Parish San Bernardino  
 Well SC 27 No. 17 Field TRACT C-6

## USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. <u>1900</u>	<u>12/31/74</u>			
Depart: Well/Dock	1. <u>1330</u>	<u>1/1/75</u>			<u>18 1/2</u> Hrs.
Gauge Start in Hole	1. <u>2154</u>	<u>12/31/74</u>			
Gauge Out of Hole	1. <u>1213</u>	<u>1/1/75</u>			<u>14 1/2</u> Hrs.
No. Trips	<u>1</u>	Miles	<u>90</u>	Total Mileage	<u>90</u>

Top Gauge # 189 Element # 35494 Range 120010 Time Mode LINE  
 Btm. Gauge # 136 Element # 35336 Range 200010 Time Mode LINE  
 Type Tool \_\_\_\_\_ Test Depth 1948-2020 Zero Point GROUND LEVEL  
 Packer Depth 1948 Drill Pipe Depth 2020' Top Gauge Depth 1929'  
 Bottom Hole Temp. \_\_\_\_\_ Atmos. Temp. \_\_\_\_\_ Bottom Gauge Depth 1989'

## TIME INFORMATION

Time Date

## PRESSURE INFORMATION

On Bottom	<u>1/1/75</u>	Initial Hydrostatic Mud	
Packer Set	<u>0307</u>	Initial Draw Down	<u>601</u>
Initial Open	<u>0310</u>	Initial Build-Up	<u>601</u>
Initial Shut-In	<u>0313</u>	Final Flow	<u>607</u>
Start Flow	<u>0345</u>	Final Build-Up	<u>710</u>
Final Shut-In	<u>1018</u>	Final Hydrostatic Mud	
Packer Unseated	<u>1020</u>	Mud Weight	

## TIME OF SURFACE NULLS

Top Gauge 2143 2144 2145 Bottom Gauge 0029 0030 0031

Remarks \_\_\_\_\_



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 189 WITH 1400 LB. ELEMENT  
GAUGE DEPTH IS 1929 FT, OUTSIDE DRILL PIPE  
ABOVE PACKER SET AT 1966 FEET  
GROUND LEVEL REFERENCE IS 7036 FEET  
INITIAL HYDROSTATIC IS 630.90 PSI  
FINAL HYDROSTATIC IS 632.20 PSI  
TEST INTERVAL IS FROM SURFACE TO  
1966 FEET NPACKER DEPTH

II B-1417

428 POINTS REPORTED THIS JOB

PAGE 1 OF 13 PAGES



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 INIT, OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	633,312	03 10	DEC 31, 1974	INITIAL OPEN
.017	633,377	03 11	DEC 31, 1974	
.033	633,837	03 12	DEC 31, 1974	
.050	634,133	03 13	DEC 31, 1974	END OPEN

II B-1418

4 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	634,133	03 13	DEC 31,1974	INITIAL CLOSE
,017	633,377	03 14	DEC 31,1974	
,034	633,574	03 15	DEC 31,1974	
,052	633,607	03 16	DEC 31,1974	
,069	633,673	03 17	DEC 31,1974	
,086	633,739	03 18	DEC 31,1974	
,103	633,804	03 19	DEC 31,1974	
,120	633,804	03 20	DEC 31,1974	
,138	633,870	03 21	DEC 31,1974	
,155	633,870	03 22	DEC 31,1974	
,172	633,936	03 23	DEC 31,1974	
,189	633,936	03 24	DEC 31,1974	
,206	633,936	03 25	DEC 31,1974	
,224	633,969	03 26	DEC 31,1974	
,241	634,035	03 27	DEC 31,1974	
,258	634,035	03 28	DEC 31,1974	
,275	634,067	03 30	DEC 31,1974	
,292	634,100	03 31	DEC 31,1974	
,310	634,133	03 32	DEC 31,1974	
,327	634,166	03 33	DEC 31,1974	
,344	634,199	03 34	DEC 31,1974	
,361	634,199	03 35	DEC 31,1974	
,378	634,199	03 36	DEC 31,1974	
,396	634,265	03 37	DEC 31,1974	
,413	634,265	03 38	DEC 31,1974	
,430	634,265	03 39	DEC 31,1974	
,447	634,297	03 40	DEC 31,1974	
,465	634,297	03 41	DEC 31,1974	
,482	634,297	03 42	DEC 31,1974	
,499	634,330	03 43	DEC 31,1974	
,516	634,363	03 44	DEC 31,1974	
,533	634,527	03 45	DEC 31,1974	END SHUT IN

II B-1419

32 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	634,527	03 45	DEC 31, 1974	OPEN TO FLOW
,017	634,265	03 46	DEC 31, 1974	
,034	634,363	03 47	DEC 31, 1974	
,050	634,527	03 48	DEC 31, 1974	
,067	634,659	03 49	DEC 31, 1974	
,084	634,659	03 50	DEC 31, 1974	
,101	634,692	03 51	DEC 31, 1974	
,117	634,725	03 52	DEC 31, 1974	
,134	634,725	03 53	DEC 31, 1974	
,151	634,758	03 54	DEC 31, 1974	
,168	634,758	03 55	DEC 31, 1974	
,184	634,790	03 56	DEC 31, 1974	
,201	634,823	03 57	DEC 31, 1974	
,218	634,856	03 58	DEC 31, 1974	
,235	634,856	03 59	DEC 31, 1974	
,251	634,856	04 00	DEC 31, 1974	
,268	634,922	04 01	DEC 31, 1974	
,285	634,922	04 02	DEC 31, 1974	
,302	634,922	04 03	DEC 31, 1974	
,318	634,922	04 04	DEC 31, 1974	
,335	634,955	04 05	DEC 31, 1974	
,352	634,955	04 06	DEC 31, 1974	
,369	634,955	04 07	DEC 31, 1974	
,385	634,988	04 08	DEC 31, 1974	
,402	635,053	04 09	DEC 31, 1974	
,419	635,020	04 10	DEC 31, 1974	
,436	635,020	04 11	DEC 31, 1974	
,452	635,053	04 12	DEC 31, 1974	
,469	635,053	04 13	DEC 31, 1974	
,486	635,053	04 14	DEC 31, 1974	
,503	635,053	04 15	DEC 31, 1974	
,519	635,119	04 16	DEC 31, 1974	
,536	635,119	04 17	DEC 31, 1974	
,553	635,152	04 18	DEC 31, 1974	
,570	635,152	04 19	DEC 31, 1974	
,586	635,185	04 20	DEC 31, 1974	
,603	635,185	04 21	DEC 31, 1974	
,620	635,185	04 22	DEC 31, 1974	
,637	635,185	04 23	DEC 31, 1974	
,653	635,250	04 24	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.670	635,250	04 25	DEC 31,1974	
.687	635,283	04 26	DEC 31,1974	
.704	635,316	04 27	DEC 31,1974	
.720	635,316	04 28	DEC 31,1974	
.737	635,316	04 29	DEC 31,1974	
.754	635,316	04 30	DEC 31,1974	
.771	635,349	04 31	DEC 31,1974	
.787	635,349	04 32	DEC 31,1974	
.804	635,382	04 33	DEC 31,1974	
.821	635,382	04 34	DEC 31,1974	
.838	635,415	04 35	DEC 31,1974	
.854	635,448	04 36	DEC 31,1974	
.871	635,448	04 37	DEC 31,1974	
.888	635,448	04 38	DEC 31,1974	
.905	635,448	04 39	DEC 31,1974	
.921	635,513	04 40	DEC 31,1974	
.938	635,513	04 41	DEC 31,1974	
.955	635,546	04 42	DEC 31,1974	
.972	635,546	04 43	DEC 31,1974	
.988	635,579	04 44	DEC 31,1974	
1.005	635,579	04 45	DEC 31,1974	
1.022	635,579	04 46	DEC 31,1974	
1.039	635,579	04 47	DEC 31,1974	
1.055	635,612	04 48	DEC 31,1974	
1.072	635,612	04 49	DEC 31,1974	
1.089	635,612	04 50	DEC 31,1974	
1.106	635,645	04 51	DEC 31,1974	
1.122	635,645	04 52	DEC 31,1974	
1.139	635,645	04 53	DEC 31,1974	
1.156	635,645	04 54	DEC 31,1974	
1.173	635,678	04 55	DEC 31,1974	
1.189	635,678	04 56	DEC 31,1974	
1.206	635,678	04 57	DEC 31,1974	
1.223	635,678	04 58	DEC 31,1974	
1.240	635,711	04 59	DEC 31,1974	
1.256	635,711	05 00	DEC 31,1974	
1.273	635,711	05 01	DEC 31,1974	
1.290	635,711	05 02	DEC 31,1974	
1.307	635,809	05 03	DEC 31,1974	
1.323	635,809	05 04	DEC 31,1974	





JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,340	635,809	05 05	DEC 31,1974	
1,357	635,809	05 06	DEC 31,1974	
1,374	635,842	05 07	DEC 31,1974	
1,390	635,842	05 08	DEC 31,1974	
1,407	635,875	05 09	DEC 31,1974	
1,424	635,908	05 10	DEC 31,1974	
1,441	635,908	05 11	DEC 31,1974	
1,457	635,908	05 12	DEC 31,1974	
1,474	635,908	05 13	DEC 31,1974	
1,491	635,941	05 14	DEC 31,1974	
1,508	635,941	05 15	DEC 31,1974	
1,524	635,973	05 16	DEC 31,1974	
1,541	636,039	05 17	DEC 31,1974	
1,558	636,039	05 18	DEC 31,1974	
1,575	636,039	05 19	DEC 31,1974	
1,591	636,039	05 20	DEC 31,1974	
1,608	636,039	05 21	DEC 31,1974	
1,625	636,072	05 22	DEC 31,1974	
1,642	636,072	05 24	DEC 31,1974	
1,658	636,072	05 25	DEC 31,1974	
1,675	636,105	05 26	DEC 31,1974	
1,692	636,105	05 27	DEC 31,1974	
1,709	636,105	05 28	DEC 31,1974	
1,725	636,138	05 29	DEC 31,1974	
1,742	636,138	05 30	DEC 31,1974	
1,759	636,138	05 31	DEC 31,1974	
1,776	636,138	05 32	DEC 31,1974	
1,792	636,171	05 33	DEC 31,1974	
1,809	636,171	05 34	DEC 31,1974	
1,826	636,203	05 35	DEC 31,1974	
1,843	636,203	05 36	DEC 31,1974	
1,859	636,171	05 37	DEC 31,1974	
1,876	636,203	05 38	DEC 31,1974	
1,893	636,203	05 39	DEC 31,1974	
1,910	636,269	05 40	DEC 31,1974	
1,926	636,269	05 41	DEC 31,1974	
1,943	636,269	05 42	DEC 31,1974	
1,960	636,269	05 43	DEC 31,1974	
1,977	636,269	05 44	DEC 31,1974	
1,993	636,269	05 45	DEC 31,1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,010	636,269	05 46	DEC 31, 1974	
2,027	636,335	05 47	DEC 31, 1974	
2,044	636,335	05 48	DEC 31, 1974	
2,060	636,335	05 49	DEC 31, 1974	
2,077	636,335	05 50	DEC 31, 1974	
2,094	636,335	05 51	DEC 31, 1974	
2,111	636,401	05 52	DEC 31, 1974	
2,128	636,401	05 53	DEC 31, 1974	
2,144	636,401	05 54	DEC 31, 1974	
2,161	636,401	05 55	DEC 31, 1974	
2,178	636,401	05 56	DEC 31, 1974	
2,195	636,401	05 57	DEC 31, 1974	
2,211	636,466	05 58	DEC 31, 1974	
2,228	636,466	05 59	DEC 31, 1974	
2,245	636,532	06 00	DEC 31, 1974	
2,262	636,532	06 01	DEC 31, 1974	
2,278	636,532	06 02	DEC 31, 1974	
2,295	636,532	06 03	DEC 31, 1974	
2,312	636,598	06 04	DEC 31, 1974	
2,329	636,631	06 05	DEC 31, 1974	
2,345	636,598	06 06	DEC 31, 1974	
2,362	636,631	06 07	DEC 31, 1974	
2,379	636,664	06 08	DEC 31, 1974	
2,396	636,664	06 09	DEC 31, 1974	
2,412	636,664	06 10	DEC 31, 1974	
2,429	636,664	06 11	DEC 31, 1974	
2,446	636,664	06 12	DEC 31, 1974	
2,463	636,664	06 13	DEC 31, 1974	
2,479	636,696	06 14	DEC 31, 1974	
2,496	636,696	06 15	DEC 31, 1974	
2,513	636,696	06 16	DEC 31, 1974	
2,530	636,696	06 17	DEC 31, 1974	
2,546	636,762	06 18	DEC 31, 1974	
2,563	636,762	06 19	DEC 31, 1974	
2,580	636,762	06 20	DEC 31, 1974	
2,597	636,762	06 21	DEC 31, 1974	
2,613	636,762	06 22	DEC 31, 1974	
2,630	636,762	06 23	DEC 31, 1974	
2,647	636,762	06 24	DEC 31, 1974	
2,664	636,762	06 25	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,680	636,861	06 26	DEC 31, 1974	
2,697	636,828	06 27	DEC 31, 1974	
2,714	636,861	06 28	DEC 31, 1974	
2,731	636,861	06 29	DEC 31, 1974	
2,747	636,861	06 30	DEC 31, 1974	
2,764	636,861	06 31	DEC 31, 1974	
2,781	636,861	06 32	DEC 31, 1974	
2,798	636,861	06 33	DEC 31, 1974	
2,814	636,894	06 34	DEC 31, 1974	
2,831	636,894	06 35	DEC 31, 1974	
2,848	636,959	06 36	DEC 31, 1974	
2,865	636,959	06 37	DEC 31, 1974	
2,881	636,959	06 38	DEC 31, 1974	
2,898	636,959	06 39	DEC 31, 1974	
2,915	637,025	06 40	DEC 31, 1974	
2,932	637,025	06 41	DEC 31, 1974	
2,948	637,025	06 42	DEC 31, 1974	
2,965	636,992	06 43	DEC 31, 1974	
2,982	637,058	06 44	DEC 31, 1974	
2,999	637,058	06 45	DEC 31, 1974	
3,015	637,058	06 46	DEC 31, 1974	
3,032	637,058	06 47	DEC 31, 1974	
3,049	637,058	06 48	DEC 31, 1974	
3,066	637,058	06 49	DEC 31, 1974	
3,082	637,124	06 50	DEC 31, 1974	
3,099	637,124	06 51	DEC 31, 1974	
3,116	637,124	06 52	DEC 31, 1974	
3,133	637,157	06 53	DEC 31, 1974	
3,149	637,157	06 54	DEC 31, 1974	
3,166	637,189	06 55	DEC 31, 1974	
3,183	637,189	06 56	DEC 31, 1974	
3,200	637,189	06 57	DEC 31, 1974	
3,216	637,189	06 58	DEC 31, 1974	
3,233	637,222	06 59	DEC 31, 1974	
3,250	637,222	07 00	DEC 31, 1974	61 GPM DOWN
3,267	637,222	07 01	DEC 31, 1974	ANNULUS
3,283	637,288	07 02	DEC 31, 1974	
3,300	637,321	07 03	DEC 31, 1974	
3,317	637,354	07 04	DEC 31, 1974	
3,334	637,387	07 05	DEC 31, 1974	







JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,350	638,931	07 06	DEC 31, 1974	
3,367	641,363	07 07	DEC 31, 1974	
3,384	643,499	07 08	DEC 31, 1974	
3,401	645,241	07 09	DEC 31, 1974	
3,417	646,654	07 10	DEC 31, 1974	
3,434	647,870	07 11	DEC 31, 1974	
3,451	648,921	07 12	DEC 31, 1974	
3,468	649,414	07 13	DEC 31, 1974	
3,484	649,316	07 14	DEC 31, 1974	
3,501	649,973	07 15	DEC 31, 1974	
3,518	650,893	07 16	DEC 31, 1974	
3,535	651,715	07 17	DEC 31, 1974	
3,551	652,405	07 18	DEC 31, 1974	
3,568	652,931	07 19	DEC 31, 1974	
3,585	653,424	07 20	DEC 31, 1974	
3,602	653,851	07 21	DEC 31, 1974	
3,618	654,245	07 22	DEC 31, 1974	
3,635	654,541	07 23	DEC 31, 1974	
3,652	654,837	07 24	DEC 31, 1974	
3,669	655,198	07 25	DEC 31, 1974	
3,685	655,560	07 26	DEC 31, 1974	
3,702	655,823	07 27	DEC 31, 1974	
3,719	656,020	07 28	DEC 31, 1974	
3,736	656,250	07 29	DEC 31, 1974	
3,752	656,414	07 30	DEC 31, 1974	
3,769	656,611	07 31	DEC 31, 1974	
3,786	656,710	07 32	DEC 31, 1974	
3,803	656,907	07 33	DEC 31, 1974	
3,819	657,137	07 34	DEC 31, 1974	
3,836	657,367	07 35	DEC 31, 1974	
3,853	657,531	07 36	DEC 31, 1974	
3,870	657,663	07 37	DEC 31, 1974	
3,886	657,729	07 38	DEC 31, 1974	
3,903	657,893	07 39	DEC 31, 1974	
3,920	657,992	07 40	DEC 31, 1974	
3,937	658,057	07 41	DEC 31, 1974	
3,953	658,189	07 42	DEC 31, 1974	
3,970	658,287	07 43	DEC 31, 1974	
3,987	658,386	07 44	DEC 31, 1974	
4,004	658,550	07 45	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,020	658,616	07 46	DEC 31, 1974	
4,037	658,682	07 47	DEC 31, 1974	
4,054	658,760	07 48	DEC 31, 1974	
4,071	658,879	07 49	DEC 31, 1974	
4,087	659,043	07 50	DEC 31, 1974	
4,104	659,207	07 51	DEC 31, 1974	
4,121	659,405	07 52	DEC 31, 1974	
4,138	659,503	07 53	DEC 31, 1974	
4,154	659,635	07 54	DEC 31, 1974	
4,171	659,832	07 55	DEC 31, 1974	
4,188	659,963	07 56	DEC 31, 1974	
4,205	660,161	07 57	DEC 31, 1974	
4,222	660,193	07 58	DEC 31, 1974	
4,238	660,292	07 59	DEC 31, 1974	
4,255	660,358	08 00	DEC 31, 1974	END INJECTION
4,272	660,489	08 01	DEC 31, 1974	START DECLINE
4,289	660,555	08 02	DEC 31, 1974	
4,305	660,621	08 03	DEC 31, 1974	
4,322	660,686	08 04	DEC 31, 1974	
4,339	660,391	08 05	DEC 31, 1974	
4,356	658,156	08 06	DEC 31, 1974	
4,372	655,527	08 07	DEC 31, 1974	
4,389	653,292	08 08	DEC 31, 1974	
4,406	651,288	08 09	DEC 31, 1974	
4,423	649,546	08 10	DEC 31, 1974	
4,439	648,133	08 11	DEC 31, 1974	
4,456	646,950	08 12	DEC 31, 1974	
4,473	645,931	08 13	DEC 31, 1974	
4,490	645,011	08 14	DEC 31, 1974	
4,506	644,255	08 15	DEC 31, 1974	
4,523	643,598	08 16	DEC 31, 1974	
4,540	643,039	08 17	DEC 31, 1974	
4,557	642,612	08 18	DEC 31, 1974	
4,573	642,217	08 19	DEC 31, 1974	
4,590	641,856	08 20	DEC 31, 1974	
4,607	641,527	08 21	DEC 31, 1974	
4,624	641,199	08 22	DEC 31, 1974	
4,640	640,936	08 23	DEC 31, 1974	
4,657	640,771	08 24	DEC 31, 1974	
4,674	640,443	08 25	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,691	640,344	08 26	DEC 31, 1974	
4,707	640,147	08 27	DEC 31, 1974	2 GPM DOWN DP
4,724	639,983	08 28	DEC 31, 1974	
4,741	639,818	08 29	DEC 31, 1974	
4,758	639,720	08 30	DEC 31, 1974	
4,774	639,654	08 31	DEC 31, 1974	
4,791	639,523	08 32	DEC 31, 1974	
4,808	639,457	08 33	DEC 31, 1974	
4,825	639,391	08 34	DEC 31, 1974	
4,841	639,293	08 35	DEC 31, 1974	
4,858	639,260	08 36	DEC 31, 1974	
4,875	639,194	08 37	DEC 31, 1974	
4,892	639,128	08 38	DEC 31, 1974	
4,908	639,063	08 40	DEC 31, 1974	
4,925	639,030	08 41	DEC 31, 1974	
4,942	639,030	08 42	DEC 31, 1974	
4,959	639,030	08 43	DEC 31, 1974	
4,975	638,931	08 44	DEC 31, 1974	
4,992	638,931	08 45	DEC 31, 1974	
5,009	638,931	08 46	DEC 31, 1974	
5,026	638,898	08 47	DEC 31, 1974	5 GPM DOWN DP
5,042	638,865	08 48	DEC 31, 1974	
5,059	638,865	08 49	DEC 31, 1974	
5,076	638,833	08 50	DEC 31, 1974	
5,093	638,800	08 51	DEC 31, 1974	
5,109	638,734	08 52	DEC 31, 1974	
5,126	638,734	08 53	DEC 31, 1974	
5,143	638,701	08 54	DEC 31, 1974	
5,160	638,767	08 55	DEC 31, 1974	
5,176	638,734	08 56	DEC 31, 1974	
5,193	638,668	08 57	DEC 31, 1974	
5,210	638,668	08 58	DEC 31, 1974	
5,227	638,668	08 59	DEC 31, 1974	
5,243	638,668	09 00	DEC 31, 1974	
5,260	638,668	09 01	DEC 31, 1974	
5,277	638,668	09 02	DEC 31, 1974	
5,294	638,668	09 03	DEC 31, 1974	
5,310	638,668	09 04	DEC 31, 1974	
5,327	638,635	09 05	DEC 31, 1974	
5,344	638,668	09 06	DEC 31, 1974	







JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,361	638,668	09 07	DEC 31,1974	11 GPM DOWN DP
5,377	638,668	09 08	DEC 31,1974	
5,394	638,668	09 09	DEC 31,1974	
5,411	638,668	09 10	DEC 31,1974	
5,428	638,668	09 11	DEC 31,1974	
5,444	638,668	09 12	DEC 31,1974	
5,461	638,668	09 13	DEC 31,1974	
5,478	638,635	09 14	DEC 31,1974	
5,495	638,635	09 15	DEC 31,1974	
5,511	638,635	09 16	DEC 31,1974	
5,528	638,635	09 17	DEC 31,1974	
5,545	638,635	09 18	DEC 31,1974	
5,562	638,635	09 19	DEC 31,1974	
5,578	638,635	09 20	DEC 31,1974	
5,595	638,635	09 21	DEC 31,1974	
5,612	638,701	09 22	DEC 31,1974	
5,629	638,668	09 23	DEC 31,1974	
5,645	638,701	09 24	DEC 31,1974	
5,662	638,701	09 25	DEC 31,1974	
5,679	638,701	09 26	DEC 31,1974	
5,696	638,701	09 27	DEC 31,1974	20 GPM DOWN DP
5,712	638,701	09 28	DEC 31,1974	
5,729	638,668	09 29	DEC 31,1974	
5,746	638,668	09 30	DEC 31,1974	
5,763	638,734	09 31	DEC 31,1974	
5,779	638,734	09 32	DEC 31,1974	
5,796	638,734	09 33	DEC 31,1974	
5,813	638,734	09 34	DEC 31,1974	
5,830	638,734	09 35	DEC 31,1974	
5,846	638,767	09 36	DEC 31,1974	
5,863	638,767	09 37	DEC 31,1974	OVERFLOW-8GPM
5,880	638,767	09 38	DEC 31,1974	
5,897	638,767	09 39	DEC 31,1974	
5,913	638,767	09 40	DEC 31,1974	
5,930	638,767	09 41	DEC 31,1974	
5,947	638,767	09 42	DEC 31,1974	DECLINE
5,964	638,833	09 43	DEC 31,1974	
5,980	638,833	09 44	DEC 31,1974	
5,997	638,833	09 45	DEC 31,1974	
6,014	638,800	09 46	DEC 31,1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31 1974

GAUGE/RUN NUMBER  
189 DST 32 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,031	638,865	09 47	DEC 31, 1974	
6,047	638,898	09 48	DEC 31, 1974	
6,064	638,931	09 49	DEC 31, 1974	
6,081	639,030	09 50	DEC 31, 1974	
6,098	639,030	09 51	DEC 31, 1974	
6,114	639,030	09 52	DEC 31, 1974	
6,131	639,030	09 53	DEC 31, 1974	
6,148	639,030	09 54	DEC 31, 1974	
6,165	639,030	09 55	DEC 31, 1974	
6,181	639,030	09 56	DEC 31, 1974	
6,198	639,030	09 57	DEC 31, 1974	
6,215	639,030	09 58	DEC 31, 1974	
6,232	639,030	09 59	DEC 31, 1974	
6,248	639,030	10 00	DEC 31, 1974	
6,265	639,030	10 01	DEC 31, 1974	
6,282	638,997	10 02	DEC 31, 1974	
6,299	639,030	10 03	DEC 31, 1974	
6,316	638,997	10 04	DEC 31, 1974	
6,332	638,997	10 05	DEC 31, 1974	
6,349	638,997	10 06	DEC 31, 1974	
6,366	638,997	10 07	DEC 31, 1974	
6,383	638,997	10 08	DEC 31, 1974	
6,399	638,997	10 09	DEC 31, 1974	
6,416	639,030	10 10	DEC 31, 1974	
6,433	639,063	10 11	DEC 31, 1974	
6,450	639,095	10 12	DEC 31, 1974	
6,466	639,063	10 13	DEC 31, 1974	
6,483	639,128	10 14	DEC 31, 1974	
6,500	639,128	10 15	DEC 31, 1974	
6,517	639,128	10 16	DEC 31, 1974	
6,533	639,128	10 17	DEC 31, 1974	
6,550	639,128	10 18	DEC 31, 1974	END FLOW

II B-1429

392 POINTS REPORTED THIS RUN

PAGE 13



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 136 WITH 2000LB ELEMENT INSIDE DRILL PIPE

GAUGE DEPTH IS 1989 FT. BELOW BOTTOM GAUGE

PACKER SET AT 1966 FT.

GROUND LEVEL REFERENCE IS 7036 FT.

INITIAL HYDROSTATIC IS 671.93 PSI

FINAL HYDROSTATIC IS 667.31 PSI

TEST INTERVAL IS FROM 1966 FT. (PACKER DEPTH) TO 2020 FT. (BOTTOM HOLE)

II B-1430

431 POINTS REPORTED THIS JOB

PAGE 1 OF 13 PAGES





JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST 32 INITIAL, OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	494.201	03 10	DEC 31, 1974	INITIAL OPEN
.017	516.546	03 11	DEC 31, 1974	
.033	632.295	03 12	DEC 31, 1974	
.050	689.197	03 13	DEC 31, 1974	END OPEN

II B-1431

4 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST 32 SHUTIN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	689.197	03 13	DEC 31, 1974	INITIAL CLOSE
.016	20.162	03 14	DEC 31, 1974	
.031	23.304	03 15	DEC 31, 1974	
.047	487.684	03 16	DEC 31, 1974	
.063	425.678	03 17	DEC 31, 1974	
.078	421.395	03 18	DEC 31, 1974	
.094	412.271	03 19	DEC 31, 1974	
.110	409.478	03 20	DEC 31, 1974	
.125	408.128	03 21	DEC 31, 1974	
.141	407.244	03 21	DEC 31, 1974	
.157	406.918	03 22	DEC 31, 1974	
.173	406.732	03 23	DEC 31, 1974	
.188	406.685	03 24	DEC 31, 1974	
.204	406.685	03 25	DEC 31, 1974	
.220	406.825	03 26	DEC 31, 1974	
.235	407.104	03 27	DEC 31, 1974	
.251	407.430	03 28	DEC 31, 1974	
.267	407.803	03 29	DEC 31, 1974	
.282	408.128	03 30	DEC 31, 1974	
.298	408.361	03 31	DEC 31, 1974	
.314	408.547	03 32	DEC 31, 1974	
.329	408.827	03 33	DEC 31, 1974	
.345	409.059	03 34	DEC 31, 1974	
.361	409.339	03 35	DEC 31, 1974	
.376	409.571	03 36	DEC 31, 1974	
.392	409.851	03 37	DEC 31, 1974	
.408	409.990	03 37	DEC 31, 1974	
.424	410.177	03 38	DEC 31, 1974	
.439	410.456	03 39	DEC 31, 1974	
.455	410.642	03 40	DEC 31, 1974	
.471	410.968	03 41	DEC 31, 1974	
.486	411.154	03 42	DEC 31, 1974	
.502	411.387	03 43	DEC 31, 1974	
.518	411.620	03 44	DEC 31, 1974	
.533	411.806	03 45	DEC 31, 1974	END SHUT IN

II B-1432

35 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	411,806	03 45	DEC 31, 1974	OPEN TO FLOW
,066	150,628	03 49	DEC 31, 1974	
,083	153,348	03 50	DEC 31, 1974	
,100	153,536	03 51	DEC 31, 1974	
,116	153,629	03 52	DEC 31, 1974	
,133	153,864	03 53	DEC 31, 1974	
,150	153,770	03 54	DEC 31, 1974	
,166	153,958	03 55	DEC 31, 1974	
,183	154,520	03 56	DEC 31, 1974	
,199	154,520	03 57	DEC 31, 1974	
,216	154,755	03 58	DEC 31, 1974	
,233	154,802	03 59	DEC 31, 1974	
,249	154,989	04 00	DEC 31, 1974	
,266	155,224	04 01	DEC 31, 1974	
,283	155,224	04 02	DEC 31, 1974	
,299	155,458	04 03	DEC 31, 1974	
,316	155,505	04 04	DEC 31, 1974	
,332	155,693	04 05	DEC 31, 1974	
,349	155,740	04 06	DEC 31, 1974	
,366	155,740	04 07	DEC 31, 1974	
,382	155,787	04 08	DEC 31, 1974	
,399	156,021	04 09	DEC 31, 1974	
,416	156,068	04 10	DEC 31, 1974	
,432	156,256	04 11	DEC 31, 1974	
,449	156,303	04 12	DEC 31, 1974	
,465	156,303	04 13	DEC 31, 1974	
,482	156,537	04 14	DEC 31, 1974	
,499	156,584	04 15	DEC 31, 1974	
,515	156,725	04 16	DEC 31, 1974	
,532	156,772	04 17	DEC 31, 1974	
,549	156,772	04 18	DEC 31, 1974	
,565	156,818	04 19	DEC 31, 1974	
,582	156,912	04 20	DEC 31, 1974	
,598	156,912	04 21	DEC 31, 1974	
,615	156,959	04 22	DEC 31, 1974	
,632	157,053	04 23	DEC 31, 1974	
,648	157,053	04 24	DEC 31, 1974	
,665	157,100	04 25	DEC 31, 1974	
,682	157,100	04 26	DEC 31, 1974	
,698	157,100	04 27	DEC 31, 1974	





JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.715	157,147	04 28	DEC 31, 1974	
.731	157,194	04 29	DEC 31, 1974	
.748	157,240	04 30	DEC 31, 1974	
.765	157,147	04 31	DEC 31, 1974	
.781	157,334	04 32	DEC 31, 1974	
.798	157,334	04 33	DEC 31, 1974	
.815	157,522	04 34	DEC 31, 1974	
.831	157,569	04 35	DEC 31, 1974	
.848	157,334	04 36	DEC 31, 1974	
.864	157,663	04 37	DEC 31, 1974	
.881	157,569	04 38	DEC 31, 1974	
.898	157,663	04 39	DEC 31, 1974	
.914	157,709	04 40	DEC 31, 1974	
.931	157,897	04 41	DEC 31, 1974	
.948	157,944	04 42	DEC 31, 1974	
.964	157,991	04 43	DEC 31, 1974	
.981	158,038	04 44	DEC 31, 1974	
.997	158,085	04 45	DEC 31, 1974	
1.014	158,085	04 46	DEC 31, 1974	
1.031	158,225	04 47	DEC 31, 1974	
1.047	158,272	04 48	DEC 31, 1974	
1.064	158,366	04 49	DEC 31, 1974	
1.081	158,319	04 50	DEC 31, 1974	
1.097	158,366	04 51	DEC 31, 1974	
1.114	158,413	04 52	DEC 31, 1974	
1.130	158,507	04 53	DEC 31, 1974	
1.147	158,554	04 54	DEC 31, 1974	
1.164	158,600	04 55	DEC 31, 1974	
1.180	158,741	04 56	DEC 31, 1974	
1.197	158,741	04 57	DEC 31, 1974	
1.214	158,741	04 58	DEC 31, 1974	
1.230	158,741	04 59	DEC 31, 1974	
1.247	158,788	05 00	DEC 31, 1974	
1.263	158,835	05 01	DEC 31, 1974	
1.280	158,882	05 02	DEC 31, 1974	
1.297	158,976	05 03	DEC 31, 1974	
1.313	158,929	05 04	DEC 31, 1974	
1.330	158,976	05 05	DEC 31, 1974	
1.347	158,929	05 06	DEC 31, 1974	
1.363	159,116	05 07	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,380	159,116	05 08	DEC 31, 1974	
1,396	159,116	05 09	DEC 31, 1974	
1,413	159,257	05 10	DEC 31, 1974	
1,430	159,257	05 11	DEC 31, 1974	
1,446	159,257	05 12	DEC 31, 1974	
1,463	159,351	05 13	DEC 31, 1974	
1,480	159,351	05 14	DEC 31, 1974	
1,496	159,304	05 15	DEC 31, 1974	
1,513	159,398	05 16	DEC 31, 1974	
1,529	159,445	05 17	DEC 31, 1974	
1,546	159,445	05 18	DEC 31, 1974	
1,563	159,538	05 19	DEC 31, 1974	
1,579	159,538	05 20	DEC 31, 1974	
1,596	159,492	05 21	DEC 31, 1974	
1,613	159,585	05 22	DEC 31, 1974	
1,629	159,585	05 23	DEC 31, 1974	
1,646	159,679	05 24	DEC 31, 1974	
1,662	159,679	05 25	DEC 31, 1974	
1,679	159,679	05 26	DEC 31, 1974	
1,696	159,632	05 27	DEC 31, 1974	
1,712	159,773	05 28	DEC 31, 1974	
1,729	159,820	05 29	DEC 31, 1974	
1,746	159,867	05 30	DEC 31, 1974	
1,762	159,960	05 31	DEC 31, 1974	
1,779	159,867	05 32	DEC 31, 1974	
1,795	159,867	05 33	DEC 31, 1974	
1,812	160,007	05 34	DEC 31, 1974	
1,829	159,914	05 35	DEC 31, 1974	
1,845	160,101	05 36	DEC 31, 1974	
1,862	160,101	05 37	DEC 31, 1974	
1,879	160,148	05 38	DEC 31, 1974	
1,895	160,007	05 39	DEC 31, 1974	
1,912	160,195	05 40	DEC 31, 1974	
1,928	160,242	05 41	DEC 31, 1974	
1,945	160,336	05 42	DEC 31, 1974	
1,962	160,336	05 43	DEC 31, 1974	
1,978	160,383	05 44	DEC 31, 1974	
1,995	160,336	05 45	DEC 31, 1974	
2,012	160,429	05 46	DEC 31, 1974	
2,028	160,476	05 47	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,045	160,383	05 48	DEC 31, 1974	
2,061	160,476	05 49	DEC 31, 1974	
2,078	160,523	05 50	DEC 31, 1974	
2,095	160,617	05 51	DEC 31, 1974	
2,111	160,617	05 52	DEC 31, 1974	
2,128	160,617	05 53	DEC 31, 1974	
2,145	160,664	05 54	DEC 31, 1974	
2,161	160,711	05 55	DEC 31, 1974	
2,178	160,758	05 56	DEC 31, 1974	
2,194	160,758	05 57	DEC 31, 1974	
2,211	160,805	05 58	DEC 31, 1974	
2,228	160,852	05 59	DEC 31, 1974	
2,244	160,805	06 00	DEC 31, 1974	
2,261	160,852	06 01	DEC 31, 1974	
2,278	160,898	06 02	DEC 31, 1974	
2,294	160,898	06 03	DEC 31, 1974	
2,311	160,945	06 04	DEC 31, 1974	
2,327	161,039	06 05	DEC 31, 1974	
2,344	161,133	06 06	DEC 31, 1974	
2,361	161,086	06 07	DEC 31, 1974	
2,377	161,086	06 08	DEC 31, 1974	
2,394	161,180	06 09	DEC 31, 1974	
2,411	161,133	06 10	DEC 31, 1974	
2,427	161,180	06 11	DEC 31, 1974	
2,444	161,180	06 12	DEC 31, 1974	
2,460	161,227	06 13	DEC 31, 1974	
2,477	161,274	06 14	DEC 31, 1974	
2,494	161,274	06 15	DEC 31, 1974	
2,510	161,320	06 16	DEC 31, 1974	
2,527	161,320	06 17	DEC 31, 1974	
2,544	161,414	06 18	DEC 31, 1974	
2,560	161,508	06 19	DEC 31, 1974	
2,577	161,461	06 20	DEC 31, 1974	
2,593	161,414	06 21	DEC 31, 1974	
2,610	161,508	06 22	DEC 31, 1974	
2,627	161,461	06 23	DEC 31, 1974	
2,643	161,461	06 24	DEC 31, 1974	
2,660	161,555	06 25	DEC 31, 1974	
2,677	161,602	06 26	DEC 31, 1974	
2,693	161,649	06 27	DEC 31, 1974	





JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,710	161,696	06 28	DEC 31, 1974	
2,726	161,696	06 29	DEC 31, 1974	
2,743	161,743	06 30	DEC 31, 1974	
2,760	161,743	06 31	DEC 31, 1974	
2,776	161,836	06 32	DEC 31, 1974	
2,793	161,836	06 33	DEC 31, 1974	
2,810	161,789	06 34	DEC 31, 1974	
2,826	161,883	06 35	DEC 31, 1974	
2,843	161,883	06 36	DEC 31, 1974	
2,859	161,883	06 37	DEC 31, 1974	
2,876	161,930	06 38	DEC 31, 1974	
2,893	161,883	06 39	DEC 31, 1974	
2,909	161,977	06 40	DEC 31, 1974	
2,926	161,977	06 41	DEC 31, 1974	
2,943	161,977	06 42	DEC 31, 1974	
2,959	162,118	06 43	DEC 31, 1974	
2,976	162,118	06 44	DEC 31, 1974	
2,992	162,071	06 45	DEC 31, 1974	
3,009	162,165	06 46	DEC 31, 1974	
3,026	162,165	06 47	DEC 31, 1974	
3,042	162,165	06 48	DEC 31, 1974	
3,059	162,258	06 49	DEC 31, 1974	
3,076	162,305	06 50	DEC 31, 1974	
3,092	162,305	06 51	DEC 31, 1974	
3,109	162,305	06 52	DEC 31, 1974	
3,125	162,258	06 53	DEC 31, 1974	
3,142	162,399	06 54	DEC 31, 1974	
3,159	162,399	06 55	DEC 31, 1974	
3,175	162,446	06 56	DEC 31, 1974	
3,192	162,399	06 57	DEC 31, 1974	
3,209	162,493	06 58	DEC 31, 1974	
3,225	162,540	06 59	DEC 31, 1974	
3,242	162,540	07 00	DEC 31, 1974	
3,258	162,587	07 01	DEC 31, 1974	
3,275	162,587	07 02	DEC 31, 1974	
3,292	162,634	07 02	DEC 31, 1974	
3,308	162,634	07 03	DEC 31, 1974	
3,325	162,634	07 04	DEC 31, 1974	
3,342	162,634	07 05	DEC 31, 1974	
3,358	162,681	07 06	DEC 31, 1974	

61 GIM ANNULUS



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3.375	162.727	07 07	DEC 31, 1974	
3.391	162.727	07 08	DEC 31, 1974	
3.408	162.821	07 09	DEC 31, 1974	
3.425	162.868	07 10	DEC 31, 1974	
3.441	162.915	07 11	DEC 31, 1974	
3.458	162.868	07 12	DEC 31, 1974	
3.474	162.915	07 13	DEC 31, 1974	
3.491	162.962	07 14	DEC 31, 1974	
3.508	163.009	07 15	DEC 31, 1974	
3.524	163.009	07 16	DEC 31, 1974	
3.541	163.056	07 17	DEC 31, 1974	
3.558	163.009	07 18	DEC 31, 1974	
3.574	163.103	07 19	DEC 31, 1974	
3.591	163.056	07 20	DEC 31, 1974	
3.607	163.196	07 21	DEC 31, 1974	
3.624	163.196	07 22	DEC 31, 1974	
3.641	163.196	07 23	DEC 31, 1974	
3.657	163.196	07 24	DEC 31, 1974	
3.674	163.243	07 25	DEC 31, 1974	
3.691	163.337	07 26	DEC 31, 1974	
3.707	163.384	07 27	DEC 31, 1974	
3.724	163.337	07 28	DEC 31, 1974	
3.740	163.384	07 29	DEC 31, 1974	
3.757	163.384	07 30	DEC 31, 1974	
3.774	163.290	07 31	DEC 31, 1974	
3.790	163.572	07 32	DEC 31, 1974	
3.807	163.618	07 33	DEC 31, 1974	
3.824	163.618	07 34	DEC 31, 1974	
3.840	163.665	07 35	DEC 31, 1974	
3.857	163.665	07 36	DEC 31, 1974	
3.873	163.665	07 37	DEC 31, 1974	
3.890	163.618	07 38	DEC 31, 1974	
3.907	163.759	07 39	DEC 31, 1974	
3.923	163.759	07 40	DEC 31, 1974	
3.940	163.712	07 41	DEC 31, 1974	
3.957	163.806	07 42	DEC 31, 1974	
3.973	163.900	07 43	DEC 31, 1974	
3.990	163.994	07 44	DEC 31, 1974	
4.006	163.947	07 45	DEC 31, 1974	
4.023	163.994	07 46	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,040	164,087	07 47	DEC 31, 1974	
4,056	163,994	07 48	DEC 31, 1974	
4,073	164,041	07 49	DEC 31, 1974	
4,090	164,041	07 50	DEC 31, 1974	
4,106	164,087	07 51	DEC 31, 1974	
4,123	164,087	07 52	DEC 31, 1974	
4,139	164,087	07 53	DEC 31, 1974	
4,156	164,134	07 54	DEC 31, 1974	
4,173	164,087	07 55	DEC 31, 1974	
4,189	164,181	07 56	DEC 31, 1974	
4,206	164,181	07 57	DEC 31, 1974	
4,223	164,181	07 58	DEC 31, 1974	
4,239	164,275	07 59	DEC 31, 1974	DECLINE
4,256	164,322	08 00	DEC 31, 1974	
4,272	164,322	08 01	DEC 31, 1974	
4,289	164,369	08 02	DEC 31, 1974	
4,306	164,275	08 03	DEC 31, 1974	
4,322	164,369	08 04	DEC 31, 1974	
4,339	164,416	08 05	DEC 31, 1974	
4,356	164,509	08 06	DEC 31, 1974	
4,372	164,416	08 07	DEC 31, 1974	
4,389	164,416	08 08	DEC 31, 1974	
4,405	164,416	08 09	DEC 31, 1974	
4,422	164,463	08 10	DEC 31, 1974	
4,439	164,416	08 11	DEC 31, 1974	
4,455	164,463	08 12	DEC 31, 1974	
4,472	164,509	08 13	DEC 31, 1974	
4,489	164,416	08 14	DEC 31, 1974	
4,505	164,463	08 15	DEC 31, 1974	
4,522	164,509	08 16	DEC 31, 1974	
4,538	164,369	08 17	DEC 31, 1974	
4,555	164,650	08 18	DEC 31, 1974	
4,572	164,556	08 19	DEC 31, 1974	
4,588	164,697	08 20	DEC 31, 1974	
4,605	164,603	08 21	DEC 31, 1974	
4,622	164,603	08 22	DEC 31, 1974	
4,638	164,650	08 23	DEC 31, 1974	
4,655	164,650	08 24	DEC 31, 1974	
4,671	164,650	08 25	DEC 31, 1974	
4,688	164,603	08 26	DEC 31, 1974	





JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,705	164,744	08 27	DEC 31, 1974	
4,721	164,697	08 28	DEC 31, 1974	
4,738	164,697	08 29	DEC 31, 1974	2 G/M DOWN DP
4,755	164,744	08 30	DEC 31, 1974	
4,771	164,791	08 31	DEC 31, 1974	
4,788	164,791	08 32	DEC 31, 1974	
4,804	164,838	08 33	DEC 31, 1974	
4,821	164,744	08 34	DEC 31, 1974	
4,838	164,838	08 35	DEC 31, 1974	
4,854	164,744	08 36	DEC 31, 1974	
4,871	164,932	08 37	DEC 31, 1974	
4,888	164,885	08 38	DEC 31, 1974	
4,904	164,932	08 39	DEC 31, 1974	
4,921	164,978	08 40	DEC 31, 1974	
4,937	165,025	08 41	DEC 31, 1974	
4,954	165,025	08 42	DEC 31, 1974	
4,971	165,072	08 43	DEC 31, 1974	
4,987	165,729	08 44	DEC 31, 1974	
5,004	172,529	08 45	DEC 31, 1974	
5,021	177,734	08 46	DEC 31, 1974	
5,037	183,127	08 47	DEC 31, 1974	
5,054	188,098	08 48	DEC 31, 1974	
5,070	193,070	08 49	DEC 31, 1974	5 G/M DOWN DP
5,087	197,994	08 50	DEC 31, 1974	
5,104	202,918	08 51	DEC 31, 1974	
5,120	208,405	08 52	DEC 31, 1974	
5,137	215,267	08 53	DEC 31, 1974	
5,154	222,529	08 54	DEC 31, 1974	
5,170	229,744	08 55	DEC 31, 1974	
5,187	236,913	08 56	DEC 31, 1974	
5,203	244,315	08 57	DEC 31, 1974	
5,220	251,623	08 58	DEC 31, 1974	
5,237	259,072	08 59	DEC 31, 1974	
5,253	266,008	09 00	DEC 31, 1974	
5,270	273,596	09 01	DEC 31, 1974	
5,287	280,439	09 02	DEC 31, 1974	
5,303	287,421	09 03	DEC 31, 1974	
5,320	294,264	09 04	DEC 31, 1974	
5,336	301,480	09 05	DEC 31, 1974	
5,353	308,695	09 06	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,370	315,957	09 07	DEC 31, 1974	
5,386	323,498	09 08	DEC 31, 1974	
5,403	330,714	09 09	DEC 31, 1974	
5,420	337,976	09 10	DEC 31, 1974	11 G/M DOWN DP
5,436	345,377	09 11	DEC 31, 1974	
5,453	353,012	09 12	DEC 31, 1974	
5,469	362,043	09 13	DEC 31, 1974	
5,486	372,982	09 14	DEC 31, 1974	
5,503	388,996	09 15	DEC 31, 1974	
5,519	405,522	09 16	DEC 31, 1974	
5,536	421,908	09 17	DEC 31, 1974	
5,553	437,595	09 18	DEC 31, 1974	
5,569	453,330	09 19	DEC 31, 1974	
5,586	471,997	09 20	DEC 31, 1974	
5,602	487,964	09 21	DEC 31, 1974	
5,619	503,325	09 22	DEC 31, 1974	
5,636	521,248	09 23	DEC 31, 1974	
5,652	536,516	09 24	DEC 31, 1974	
5,669	552,344	09 25	DEC 31, 1974	
5,686	567,659	09 26	DEC 31, 1974	
5,702	583,952	09 27	DEC 31, 1974	
5,719	594,938	09 28	DEC 31, 1974	
5,735	607,507	09 29	DEC 31, 1974	
5,752	622,712	09 30	DEC 31, 1974	20 G/M DOWN DP
5,769	639,101	09 31	DEC 31, 1974	
5,785	655,584	09 32	DEC 31, 1974	
5,802	675,214	09 33	DEC 31, 1974	
5,819	693,456	09 34	DEC 31, 1974	
5,835	723,689	09 35	DEC 31, 1974	
5,852	743,042	09 36	DEC 31, 1974	
5,868	721,652	09 37	DEC 31, 1974	
5,885	750,126	09 38	DEC 31, 1974	
5,902	818,833	09 39	DEC 31, 1974	
5,918	832,815	09 40	DEC 31, 1974	OVER FLOW
5,935	851,519	09 41	DEC 31, 1974	
5,952	866,705	09 42	DEC 31, 1974	
5,968	867,076	09 43	DEC 31, 1974	
5,985	868,048	09 44	DEC 31, 1974	
6,001	868,141	09 45	DEC 31, 1974	START DECLINE
6,018	866,705	09 46	DEC 31, 1974	



JOB NUMBER  
SPG-11210-DD

DATE OF JOB  
DECEMBER 31, 1974

GAUGE/RUN NUMBER  
136 DST-32 FINALFLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,035	866,891	09 47	DEC 31, 1974	
6,051	866,567	09 48	DEC 31, 1974	
6,068	866,011	09 49	DEC 31, 1974	
6,085	865,687	09 50	DEC 31, 1974	
6,101	865,270	09 51	DEC 31, 1974	
6,118	865,178	09 52	DEC 31, 1974	
6,134	865,039	09 53	DEC 31, 1974	
6,151	864,946	09 54	DEC 31, 1974	
6,168	864,715	09 55	DEC 31, 1974	
6,184	864,761	09 56	DEC 31, 1974	
6,201	864,483	09 57	DEC 31, 1974	
6,218	864,344	09 58	DEC 31, 1974	
6,234	864,159	09 59	DEC 31, 1974	
6,251	863,974	10 00	DEC 31, 1974	
6,267	863,881	10 01	DEC 31, 1974	
6,284	863,696	10 02	DEC 31, 1974	
6,301	863,418	10 03	DEC 31, 1974	
6,317	863,372	10 04	DEC 31, 1974	
6,334	863,140	10 05	DEC 31, 1974	
6,351	863,187	10 06	DEC 31, 1974	
6,367	862,863	10 07	DEC 31, 1974	
6,384	862,724	10 08	DEC 31, 1974	
6,400	862,492	10 09	DEC 31, 1974	
6,417	862,446	10 10	DEC 31, 1974	
6,434	862,353	10 11	DEC 31, 1974	
6,450	862,122	10 12	DEC 31, 1974	
6,467	862,076	10 13	DEC 31, 1974	
6,484	861,844	10 14	DEC 31, 1974	
6,500	861,798	10 15	DEC 31, 1974	
6,517	861,520	10 16	DEC 31, 1974	
6,533	861,427	10 17	DEC 31, 1974	
6,550	861,520	10 18	DEC 31, 1974	END FLOW

II B-1442

392 POINTS REPORTED THIS RUN

PAGE 13





JOHNSTON

Schlumberger

technical  
report

II B-1443

F.R. #09085 C



## EQUIPMENT &amp; HOLE DATA

Type Test	M.F.E. OPEN HOLE		
Formation Tested	GREEN RIVER		
Elevation	7036		Ft.
Net Productive Interval	52		Ft.
Estimated Porosity	-		%
All Depths Measured From	GROUND LEVEL		
Total Depth	2070		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	297'	I.D.	-
Drill Pipe Length	1687'	I.D.	-
Packer Depth(s)	2014' & 2018'		Ft.

## MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface  
 Recovery: Cu. Ft. Gas \_\_\_\_\_  
           cc. Oil \_\_\_\_\_  
           cc. Water \_\_\_\_\_  
           cc. Mud \_\_\_\_\_  
           Tot. Liquid cc. \_\_\_\_\_  
 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm

## MUD DATA

Mud Type WATER - FOAM Wt. -  
Viscosity - Water Loss - C.C.  
Resist. of Mud - @ - °F; of Filtrate - @ - °F  
Chloride Content - PPM

[illegible]

Remarks: \_\_\_\_\_

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Co. \_\_\_\_\_ ATLANTIC-RICHFIELD COMPANY  
Well \_\_\_\_\_ FEDERAL S. G. #17  
Test Interval \_\_\_\_\_ 2018' TO 2070' Location \_\_\_\_\_ 436' FWL & 181' FSL SEC. 16-35-96W  
Test # \_\_\_\_\_ 33 Date \_\_\_\_\_ 1-2-75

County RIO BLANCO State COLORADO II B-1444  
Technician BURNS (VERNAL) Test Approved By MR. ALLEN D. WALTER  
Field Report No. 09085 C  
No. Reports Requested 14 (13x)



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT # 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-	-	650.3	658.2
PACKER SEAT	2	-	-	664.7	672.2
TOOL OPENED	3	1054	0	32.7	36.1
CLOSED FOR INITIAL SHUT-IN	4	1056	2	40.6	43.1
			4	731.6	489.3
			6	740.7	783.4
			8	776.1	784.8
			10	780.1	789.1
			12	782.7	791.9
			14	785.3	793.3
			16	786.6	794.7
			18	786.6	794.7
			20	786.6	794.7
			22	787.9	794.7
			24	789.3	797.5
			26	787.9	796.1
			28	786.3	794.7
			30	786.3	794.7
			32	785.3	793.3
			34	785.3	791.9
			36	782.7	789.1
			38	780.1	787.6
INITIAL SHUT-IN	5	1133	39	778.8	787.6
TOOL RE-OPENED - INITIAL FLOW	6	1134	40	64.2	61.4
			42	64.2	61.4
			44	64.2	61.4
			46	64.2	61.4
			48	64.2	61.4
			50	64.2	61.4
			52	64.2	61.4
			54	64.2	61.4
			56	64.2	61.4
			58	64.2	61.4
			60	64.2	61.4
			62	64.2	61.4
			64	64.2	61.4
			66	62.8	60.0
			68	62.8	61.4
			70	62.8	61.4
			72	62.8	61.4
			74	62.8	61.4
			76	62.8	61.4
			78	62.8	61.4
			80	61.5	60.0
			82	61.5	60.0
			84	61.5	60.0
			86	61.5	60.0
			88	61.5	60.0
			90	61.5	60.0
			92	60.2	60.0
			94	60.2	60.0
			96	60.2	61.4
			98	60.2	61.4





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT# 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			100	60.2	61.4
			102	60.2	61.4
			104	60.2	61.4
			106	60.2	61.4
			108	60.2	61.4
			110	60.2	61.4
			112	60.2	61.4
			114	60.2	61.4
			116	60.2	61.4
			118	60.2	61.4
			120	60.2	61.4
			122	60.2	61.4
			124	60.2	61.4
			126	60.2	61.4
			128	60.2	61.4
			130	60.2	61.4
			132	60.2	61.4
			134	60.2	61.4
			136	60.2	61.4
			138	60.2	61.4
			140	60.2	61.4
			142	60.2	61.4
			144	60.2	61.4
			146	60.2	61.4
			148	60.2	61.4
			150	60.2	61.4
			152	60.2	61.4
			154	60.2	61.4
			156	60.2	61.4
			158	60.2	61.4
			160	60.2	61.4
			162	60.2	61.4
			164	60.2	61.4
			166	60.2	61.4
			168	60.2	61.4
			170	60.2	61.4
			172	60.2	61.4
			174	60.2	61.4
			176	60.2	61.4
			178	60.2	61.4
			180	60.2	61.4
			182	60.2	61.4
			184	60.2	61.4
			186	60.2	61.4
			188	60.2	61.4
			190	60.2	61.4
			192	60.2	61.4
			194	60.2	61.4
		II B-1446	196	60.2	61.4
			198	60.2	61.4
			200	60.2	61.4
CLOSED TOOL-PULLED PACKER					
LOOSE	7	1415	201	60.2	61.4
FINAL HYDROSTATIC	8	-	-	645.0	652.5



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT # 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT # 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
CAPACITY (P.S.I.G.)				2650	2800
INSTRUMENT DEPTH				1995'	2020'
INSTRUMENT OPENING				INSIDE	OUTSIDE

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF THE CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.





FIELD REPORT NO.

09085 C

CAPACITY

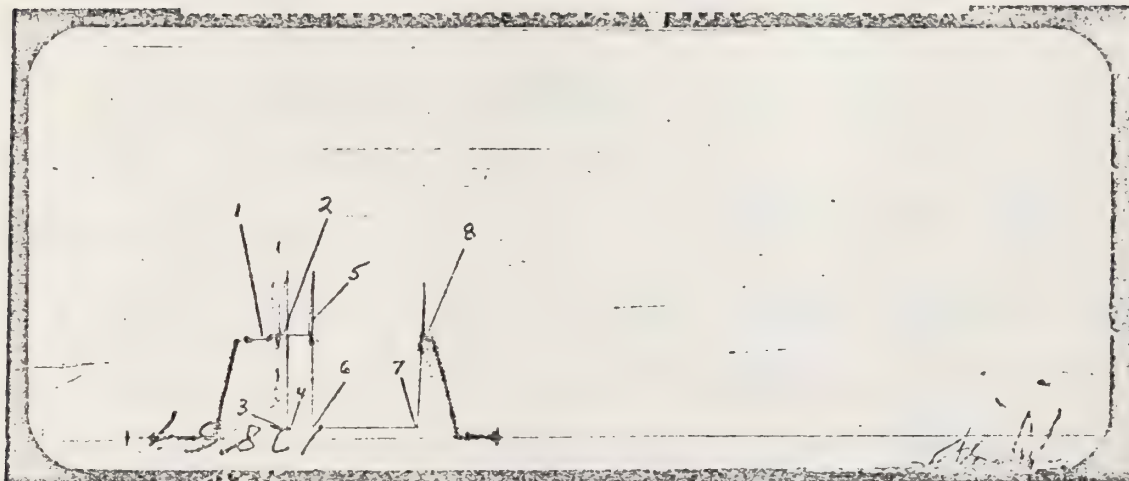
2650#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09085 C

CAPACITY

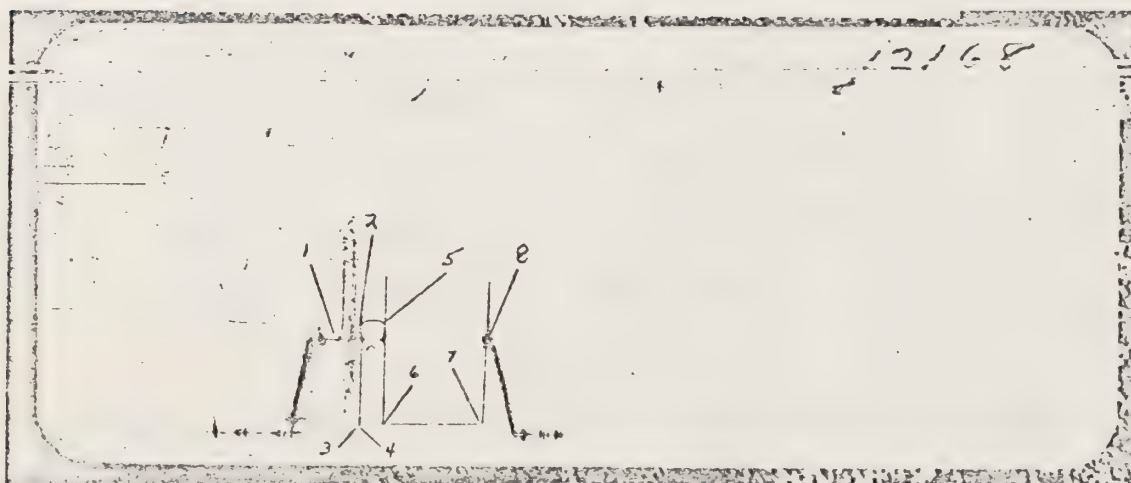
2800#

RECORDER NO.

4097 N

REPORTS REQUESTED

14+







Job No. SPG 11210EE Date 1/2/75 Run DST 33 Office Casper, Wyoming  
 Customer Arco Et AL Location Sorghum Gulch  
 State Colorado County/Parish Bio Blanco  
 Well Sorghum Gulch No. 17 Field Federal Tract Ch

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. <u>0530</u>	<u>1/2/75</u>	2. _____	_____	
Depart: Well/Dock	1. <u>1800</u>	<u>1/2/75</u>	2. _____	_____	<u>12 1/2</u> Hrs.
Gauge Start in Hole	1. <u>0800</u>	<u>1/2/75</u>	2. _____	_____	
Gauge Out of Hole	1. <u>1706</u>	<u>1/2/75</u>	2. _____	_____	<u>9</u> Hrs.
No. Trips <u>1 (one)</u>	Miles <u>90</u>	Total Mileage <u>90</u>			

-----  
 Top Gauge # 189 Element # 35994 Range 1400 Time Mode 1 min  
 Btm. Gauge # 136 Element # 35336 Range 2000 Time Mode 1 min  
 Type Tool DST Test Depth 2018' - 2070' Zero Point Ground Level  
 Packer Depth 2018' Tail Pipe Depth 2070' Top Gauge Depth 1977'  
 Bottom Hole Temp. 99°F Atmos. Temp. 10°F Bottom Gauge Depth 2029'

## TIME INFORMATION

Time Date

On Bottom	<u>1049</u>	<u>1/2/75</u>
Packer Set	<u>1051</u>	<u>1/2/75</u>
Initial Open	<u>1054</u>	<u>1/2/75</u>
Initial Shut-In	<u>1118</u>	<u>1/2/75</u>
Start Flow	<u>1150</u>	<u>1/2/75</u>
Final Shut-In	<u>1415</u>	<u>1/2/75</u>
Packer Unseated	<u>1417</u>	<u>1/2/75</u>

## PRESSURE INFORMATION

INSIDE OUTSIDE

Initial Hydrostatic Mud	<u>65</u>	<u>70</u>
Initial Draw Down	_____	_____
Initial Build-Up	<u>520</u>	<u>700</u>
Final Flow	_____	_____
Final Build-Up	_____	_____
Final Hydrostatic Mud	_____	_____
Mud Weight	_____	_____

## TIME OF SURFACE NULLS

Top Gauge 0833 0834 0835 Bottom Gauge 0812 0813 0814  
 Remarks Test Cut short because of no recovery.



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB    SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO.189 WITH 1400 LB. ELEMENT  
GAUGE DEPTH IS 1977 FT, OUTSIDE DRILL PIPE  
ABOVE PACKER SET AT 2018 FEET  
GROUND LEVEL REFERENCE IS 7036 FEET  
INITIAL HYDROSTATIC IS 638.70 PSI  
FINAL HYDROTATIC IS 642.05 PSI  
TEST INTERVAL IS FROM SURFACE TO  
2018 FEET (PACKER DEPTH)

II B-1450

202 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

GAUGE/RUN NUMBER  
189 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	649.874	10 54	JAN 02, 1975	INITIAL OPEN
.017	651.288	10 55	JAN 02, 1975	
.033	651.057	10 56	JAN 02, 1975	HAD PROBLEMS
.050	651.156	10 57	JAN 02, 1975	WITH CORE STUB
.067	651.123	10 58	JAN 02, 1975	DURING THIS
.083	651.156	10 59	JAN 02, 1975	INTERVAL
.100	651.583	11 00	JAN 02, 1975	
.117	651.353	11 01	JAN 02, 1975	
.133	651.288	11 02	JAN 02, 1975	
.150	652.273	11 03	JAN 02, 1975	
.167	651.649	11 04	JAN 02, 1975	
.183	651.649	11 05	JAN 02, 1975	
.200	651.518	11 06	JAN 02, 1975	
.217	651.583	11 07	JAN 02, 1975	
.233	651.616	11 08	JAN 02, 1975	
.250	651.715	11 09	JAN 02, 1975	
.267	651.616	11 10	JAN 02, 1975	
.283	651.649	11 11	JAN 02, 1975	
.300	651.780	11 12	JAN 02, 1975	
.317	650.762	11 13	JAN 02, 1975	
.333	652.043	11 14	JAN 02, 1975	
.350	651.945	11 15	JAN 02, 1975	
.367	652.372	11 16	JAN 02, 1975	
.383	662.067	11 17	JAN 02, 1975	
.400	651.583	11 18	JAN 02, 1975	END OPEN

II B-1451

25 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

GAUGE/RUN NUMBER  
189 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	651.583	11 18	JAN 02, 1975	INITIAL SHUT IN
.017	651.780	11 19	JAN 02, 1975	
.033	651.978	11 20	JAN 02, 1975	
.050	652.109	11 21	JAN 02, 1975	
.067	652.241	11 22	JAN 02, 1975	
.083	652.273	11 23	JAN 02, 1975	
.100	652.273	11 24	JAN 02, 1975	
.117	652.372	11 25	JAN 02, 1975	
.133	652.438	11 26	JAN 02, 1975	
.150	652.438	11 27	JAN 02, 1975	
.167	652.536	11 28	JAN 02, 1975	
.183	652.602	11 29	JAN 02, 1975	
.200	652.602	11 30	JAN 02, 1975	
.217	652.569	11 31	JAN 02, 1975	
.233	652.668	11 32	JAN 02, 1975	
.250	652.734	11 33	JAN 02, 1975	
.267	652.668	11 34	JAN 02, 1975	
.283	652.701	11 35	JAN 02, 1975	
.300	652.799	11 36	JAN 02, 1975	
.317	652.734	11 37	JAN 02, 1975	
.333	652.865	11 38	JAN 02, 1975	
.350	652.832	11 39	JAN 02, 1975	
.367	652.766	11 40	JAN 02, 1975	
.383	652.898	11 41	JAN 02, 1975	
.400	652.865	11 42	JAN 02, 1975	
.417	652.931	11 43	JAN 02, 1975	
.433	652.931	11 44	JAN 02, 1975	
.450	652.931	11 45	JAN 02, 1975	
.467	653.062	11 46	JAN 02, 1975	
.483	653.259	11 47	JAN 02, 1975	
.500	654.508	11 48	JAN 02, 1975	END SHUT IN

II B-1452

31 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

GAUGE/RUN NUMBER  
189 DST33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	654.508	11 50	JAN 02, 1975	START FLOW
.017	652.569	11 51	JAN 02, 1975	
.033	652.635	11 52	JAN 02, 1975	
.050	652.832	11 53	JAN 02, 1975	
.067	652.832	11 54	JAN 02, 1975	
.083	652.799	11 55	JAN 02, 1975	
.100	652.865	11 56	JAN 02, 1975	
.117	652.898	11 57	JAN 02, 1975	
.133	652.931	11 58	JAN 02, 1975	
.150	652.898	11 59	JAN 02, 1975	
.167	652.931	12 00	JAN 02, 1975	
.183	653.029	12 01	JAN 02, 1975	
.200	652.964	12 02	JAN 02, 1975	
.217	653.062	12 03	JAN 02, 1975	
.233	653.062	12 04	JAN 02, 1975	
.250	653.095	12 05	JAN 02, 1975	
.267	653.095	12 06	JAN 02, 1975	
.283	653.062	12 07	JAN 02, 1975	
.300	653.292	12 08	JAN 02, 1975	
.317	653.095	12 09	JAN 02, 1975	
.333	653.194	12 10	JAN 02, 1975	
.350	653.161	12 11	JAN 02, 1975	
.367	653.259	12 12	JAN 02, 1975	
.383	653.259	12 13	JAN 02, 1975	
.400	653.259	12 14	JAN 02, 1975	
.417	653.292	12 15	JAN 02, 1975	
.433	653.292	12 16	JAN 02, 1975	
.450	653.325	12 17	JAN 02, 1975	
.467	653.358	12 18	JAN 02, 1975	
.483	653.391	12 19	JAN 02, 1975	
.500	653.555	12 20	JAN 02, 1975	
.517	653.424	12 21	JAN 02, 1975	
.533	653.456	12 22	JAN 02, 1975	
.550	653.424	12 23	JAN 02, 1975	
.567	653.456	12 24	JAN 02, 1975	
.583	653.456	12 25	JAN 02, 1975	
.600	653.522	12 26	JAN 02, 1975	
.617	653.555	12 27	JAN 02, 1975	
.633	653.489	12 28	JAN 02, 1975	
.650	653.588	12 29	JAN 02, 1975	



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

GAUGE/RUN NUMBER  
189 DST33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	653,588	12 30	JAN 02,1975	
.683	653,588	12 31	JAN 02,1975	
.700	653,654	12 32	JAN 02,1975	
.717	653,621	12 33	JAN 02,1975	
.733	653,588	12 34	JAN 02,1975	
.750	653,687	12 35	JAN 02,1975	
.767	653,687	12 36	JAN 02,1975	
.783	653,752	12 37	JAN 02,1975	
.800	653,785	12 38	JAN 02,1975	
.817	653,719	12 39	JAN 02,1975	
.833	653,719	12 40	JAN 02,1975	
.850	653,818	12 41	JAN 02,1975	
.867	653,818	12 42	JAN 02,1975	
.883	653,949	12 43	JAN 02,1975	
.900	653,851	12 44	JAN 02,1975	
.917	653,818	12 45	JAN 02,1975	
.933	653,851	12 46	JAN 02,1975	
.950	653,949	12 47	JAN 02,1975	
.967	653,917	12 48	JAN 02,1975	
.983	653,917	12 49	JAN 02,1975	
1,000	653,917	12 50	JAN 02,1975	
1,017	653,949	12 51	JAN 02,1975	
1,033	654,081	12 52	JAN 02,1975	
1,050	654,114	12 53	JAN 02,1975	
1,067	653,982	12 54	JAN 02,1975	
1,083	654,147	12 55	JAN 02,1975	
1,100	654,179	12 56	JAN 02,1975	
1,117	654,179	12 57	JAN 02,1975	
1,133	654,245	12 58	JAN 02,1975	
1,150	654,081	12 59	JAN 02,1975	
1,167	654,147	13 00	JAN 02,1975	
1,183	654,212	13 01	JAN 02,1975	
1,200	654,344	13 02	JAN 02,1975	
1,217	654,344	13 03	JAN 02,1975	
1,233	654,114	13 04	JAN 02,1975	
1,250	654,147	13 05	JAN 02,1975	
1,267	654,114	13 06	JAN 02,1975	
1,283	654,179	13 07	JAN 02,1975	
1,300	654,278	13 08	JAN 02,1975	
1,317	654,278	13 09	JAN 02,1975	





JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

GAUGE/RUN NUMBER  
189 DST33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	654,278	13 10	JAN 02,1975	
1,350	654,311	13 11	JAN 02,1975	
1,367	654,442	13 12	JAN 02,1975	
1,383	654,344	13 13	JAN 02,1975	
1,400	654,278	13 14	JAN 02,1975	
1,417	654,278	13 15	JAN 02,1975	
1,433	654,278	13 16	JAN 02,1975	
1,450	654,344	13 17	JAN 02,1975	
1,467	654,344	13 18	JAN 02,1975	
1,483	654,442	13 19	JAN 02,1975	
1,500	654,410	13 20	JAN 02,1975	
1,517	654,344	13 21	JAN 02,1975	
1,533	654,442	13 22	JAN 02,1975	
1,550	654,475	13 23	JAN 02,1975	
1,567	654,442	13 24	JAN 02,1975	
1,583	654,442	13 25	JAN 02,1975	
1,600	654,475	13 26	JAN 02,1975	
1,617	654,508	13 27	JAN 02,1975	
1,633	654,541	13 28	JAN 02,1975	
1,650	654,508	13 29	JAN 02,1975	
1,667	654,508	13 30	JAN 02,1975	
1,683	654,508	13 31	JAN 02,1975	
1,700	654,574	13 32	JAN 02,1975	
1,717	654,607	13 33	JAN 02,1975	
1,733	654,574	13 34	JAN 02,1975	
1,750	654,574	13 35	JAN 02,1975	
1,767	654,640	13 36	JAN 02,1975	
1,783	654,640	13 37	JAN 02,1975	
1,800	654,607	13 38	JAN 02,1975	
1,817	654,640	13 39	JAN 02,1975	
1,833	654,837	13 40	JAN 02,1975	
1,850	654,902	13 41	JAN 02,1975	
1,867	654,771	13 42	JAN 02,1975	
1,883	654,870	13 43	JAN 02,1975	
1,900	654,837	13 44	JAN 02,1975	
1,917	654,902	13 45	JAN 02,1975	
1,933	654,968	13 46	JAN 02,1975	
1,950	654,935	13 47	JAN 02,1975	
1,967	655,100	13 48	JAN 02,1975	
1,983	654,935	13 49	JAN 02,1975	



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 02 1975

GAUGE/RUN NUMBER  
189 DST33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,000	654,968	13 50	JAN 02,1975	
2,017	654,837	13 51	JAN 02,1975	
2,033	654,804	13 52	JAN 02,1975	
2,050	654,804	13 53	JAN 02,1975	
2,067	654,771	13 54	JAN 02,1975	
2,083	654,870	13 55	JAN 02,1975	
2,100	654,837	13 56	JAN 02,1975	
2,117	654,870	13 57	JAN 02,1975	
2,133	654,902	13 58	JAN 02,1975	
2,150	654,870	13 59	JAN 02,1975	
2,167	654,870	14 00	JAN 02,1975	
2,183	654,902	14 01	JAN 02,1975	
2,200	654,935	14 02	JAN 02,1975	
2,217	654,935	14 03	JAN 02,1975	
2,233	655,001	14 04	JAN 02,1975	
2,250	654,968	14 05	JAN 02,1975	
2,267	654,968	14 06	JAN 02,1975	
2,283	655,001	14 07	JAN 02,1975	
2,300	655,297	14 08	JAN 02,1975	
2,317	655,297	14 09	JAN 02,1975	
2,333	655,198	14 10	JAN 02,1975	
2,350	655,067	14 11	JAN 02,1975	
2,367	655,100	14 12	JAN 02,1975	
2,383	655,100	14 13	JAN 02,1975	
2,400	655,100	14 14	JAN 02,1975	
2,417	655,100	14 15	JAN 02,1975	END FLOW

II B-1456

146 POINTS REPORTED THIS RUN

PAGE 7



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB SORGHUM  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 136 WITH 2000 LB. ELEMENT  
GAUGE DEPTH IS 2029 FT. INSIDE DRILL PIPE  
BELOW PACKER-SET AT 2018 FEET  
GROUND LEVEL REFERENCE IS 7036 FEET  
INITIAL HYDROSTATIC IS 685.37 PSI  
FINAL HYDROSTATIC IS 655.60 PSI  
TEST INTERVAL IS FROM 2018 FT. TO 2070 FT.

II B-1457

184 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES





JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

GAUGE/RUN NUMBER  
136 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	70,242	10 54	JAN 02, 1975	INITIAL OPEN

II B-1458

1 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

GAUGE/RUN NUMBER  
136 DST33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	79,708	11 18	JAN 02,1975	INITIAL CLOSE
.017	52,999	11 19	JAN 02,1975	
.033	83,152	11 20	JAN 02,1975	
.050	105,254	11 21	JAN 02,1975	
.067	107,162	11 22	JAN 02,1975	
.083	109,302	11 23	JAN 02,1975	
.100	111,489	11 24	JAN 02,1975	
.117	112,885	11 25	JAN 02,1975	
.133	114,235	11 26	JAN 02,1975	
.150	115,212	11 27	JAN 02,1975	
.167	116,096	11 28	JAN 02,1975	
.183	116,468	11 29	JAN 02,1975	
.200	116,468	11 30	JAN 02,1975	
.217	116,840	11 31	JAN 02,1975	
.233	116,654	11 32	JAN 02,1975	
.250	116,840	11 33	JAN 02,1975	
.267	117,957	11 34	JAN 02,1975	
.283	117,771	11 35	JAN 02,1975	
.300	118,608	11 36	JAN 02,1975	
.317	118,097	11 37	JAN 02,1975	
.333	116,980	11 38	JAN 02,1975	
.350	116,049	11 39	JAN 02,1975	
.367	115,724	11 40	JAN 02,1975	
.383	115,724	11 41	JAN 02,1975	
.400	115,724	11 42	JAN 02,1975	
.417	115,165	11 43	JAN 02,1975	
.433	114,560	11 44	JAN 02,1975	
.450	113,443	11 45	JAN 02,1975	
.467	112,187	11 46	JAN 02,1975	
.483	111,070	11 47	JAN 02,1975	
.500	109,674	11 48	JAN 02,1975	
.517	108,558	11 49	JAN 02,1975	END SHUT-IN

II B-1459

32 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

GAUGE/RUN NUMBER  
136 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	121,261	11 50	JAN 02,1975	FINAL FLOW
,016	34,062	11 51	JAN 02,1975	
,032	84,641	11 52	JAN 02,1975	
,048	85,339	11 53	JAN 02,1975	
,064	111,164	11 54	JAN 02,1975	
,081	17,866	11 55	JAN 02,1975	
,097	15,288	11 56	JAN 02,1975	
,113	14,397	11 57	JAN 02,1975	
,129	14,397	11 58	JAN 02,1975	
,145	14,163	11 59	JAN 02,1975	
,161	14,397	12 00	JAN 02,1975	
,177	13,741	12 01	JAN 02,1975	
,193	14,116	12 02	JAN 02,1975	
,209	13,975	12 03	JAN 02,1975	
,226	13,600	12 04	JAN 02,1975	
,242	13,600	12 04	JAN 02,1975	
,258	13,694	12 05	JAN 02,1975	
,274	13,928	12 06	JAN 02,1975	
,290	13,881	12 07	JAN 02,1975	
,306	13,319	12 08	JAN 02,1975	
,322	13,413	12 09	JAN 02,1975	
,338	13,647	12 10	JAN 02,1975	
,354	13,741	12 11	JAN 02,1975	
,371	13,085	12 12	JAN 02,1975	
,387	13,835	12 13	JAN 02,1975	
,403	13,975	12 14	JAN 02,1975	
,419	13,741	12 15	JAN 02,1975	
,435	13,881	12 16	JAN 02,1975	
,451	14,022	12 17	JAN 02,1975	
,467	13,413	12 18	JAN 02,1975	
,483	13,038	12 19	JAN 02,1975	
,499	13,835	12 20	JAN 02,1975	
,516	13,553	12 21	JAN 02,1975	
,532	13,647	12 22	JAN 02,1975	
,548	13,319	12 23	JAN 02,1975	
,564	13,038	12 24	JAN 02,1975	
,580	13,225	12 25	JAN 02,1975	
,596	13,131	12 26	JAN 02,1975	
,612	13,413	12 27	JAN 02,1975	
,628	13,085	12 28	JAN 02,1975	





JOB NUMBER  
8PG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

GAUGE/RUN NUMBER  
136 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
,644	12,850	12 29	JAN 02,1975	
,661	12,944	12 30	JAN 02,1975	
,677	12,944	12 31	JAN 02,1975	
,693	13,085	12 32	JAN 02,1975	
,709	12,803	12 33	JAN 02,1975	
,725	12,616	12 33	JAN 02,1975	
,741	13,038	12 34	JAN 02,1975	
,757	12,991	12 35	JAN 02,1975	
,773	13,038	12 36	JAN 02,1975	
,789	13,178	12 37	JAN 02,1975	
,806	13,553	12 38	JAN 02,1975	
,822	13,272	12 39	JAN 02,1975	
,838	13,506	12 40	JAN 02,1975	
,854	13,694	12 41	JAN 02,1975	
,870	13,553	12 42	JAN 02,1975	
,886	13,928	12 43	JAN 02,1975	
,902	14,069	12 44	JAN 02,1975	
,918	14,116	12 45	JAN 02,1975	
,934	14,256	12 46	JAN 02,1975	
,951	14,303	12 47	JAN 02,1975	
,967	13,975	12 48	JAN 02,1975	
,983	14,350	12 49	JAN 02,1975	
,999	14,303	12 50	JAN 02,1975	
1,015	14,210	12 51	JAN 02,1975	
1,031	14,210	12 52	JAN 02,1975	
1,047	14,163	12 53	JAN 02,1975	
1,063	13,975	12 54	JAN 02,1975	
1,079	14,163	12 55	JAN 02,1975	
1,096	14,069	12 56	JAN 02,1975	
1,112	14,163	12 57	JAN 02,1975	
1,128	14,210	12 58	JAN 02,1975	
1,144	14,210	12 59	JAN 02,1975	
1,160	14,256	13 00	JAN 02,1975	
1,176	14,303	13 01	JAN 02,1975	
1,192	14,163	13 02	JAN 02,1975	
1,208	14,303	13 02	JAN 02,1975	
1,224	14,210	13 03	JAN 02,1975	
1,241	14,256	13 04	JAN 02,1975	
1,257	14,303	13 05	JAN 02,1975	
1,273	14,303	13 06	JAN 02,1975	



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

GAUGE/RUN NUMBER  
136 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,289	14,303	13 07	JAN 02, 1975	
1,305	14,303	13 08	JAN 02, 1975	
1,321	14,256	13 09	JAN 02, 1975	
1,337	14,116	13 10	JAN 02, 1975	
1,353	14,350	13 11	JAN 02, 1975	
1,369	14,163	13 12	JAN 02, 1975	
1,386	14,303	13 13	JAN 02, 1975	
1,402	14,350	13 14	JAN 02, 1975	
1,418	14,256	13 15	JAN 02, 1975	
1,434	14,303	13 16	JAN 02, 1975	
1,450	14,491	13 17	JAN 02, 1975	
1,466	14,397	13 18	JAN 02, 1975	
1,482	14,350	13 19	JAN 02, 1975	
1,498	14,350	13 20	JAN 02, 1975	
1,514	14,303	13 21	JAN 02, 1975	
1,531	14,350	13 22	JAN 02, 1975	
1,547	14,303	13 23	JAN 02, 1975	
1,563	14,350	13 24	JAN 02, 1975	
1,579	14,350	13 25	JAN 02, 1975	
1,595	14,350	13 26	JAN 02, 1975	
1,611	14,538	13 27	JAN 02, 1975	
1,627	14,444	13 28	JAN 02, 1975	
1,643	14,491	13 29	JAN 02, 1975	
1,659	14,444	13 30	JAN 02, 1975	
1,676	14,491	13 31	JAN 02, 1975	
1,692	14,491	13 31	JAN 02, 1975	
1,708	14,397	13 32	JAN 02, 1975	
1,724	14,538	13 33	JAN 02, 1975	
1,740	14,538	13 34	JAN 02, 1975	
1,756	14,491	13 35	JAN 02, 1975	
1,772	14,491	13 36	JAN 02, 1975	
1,788	14,491	13 37	JAN 02, 1975	
1,804	14,491	13 38	JAN 02, 1975	
1,821	14,397	13 39	JAN 02, 1975	
1,837	14,538	13 40	JAN 02, 1975	
1,853	14,538	13 41	JAN 02, 1975	
1,869	14,585	13 42	JAN 02, 1975	
1,885	14,538	13 43	JAN 02, 1975	
1,901	14,538	13 44	JAN 02, 1975	
1,917	14,491	13 45	JAN 02, 1975	



JOB NUMBER  
SPG-11210-EE

DATE OF JOB  
JANUARY 2, 1975

GAUGE/RUN NUMBER  
136 DST 33

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,933	14,632	13 46	JAN 02,1975	
1,949	14,585	13 47	JAN 02,1975	
1,966	14,678	13 48	JAN 02,1975	
1,982	14,632	13 49	JAN 02,1975	
1,998	14,632	13 50	JAN 02,1975	
2,014	14,678	13 51	JAN 02,1975	
2,030	14,585	13 52	JAN 02,1975	
2,046	14,678	13 53	JAN 02,1975	
2,062	14,678	13 54	JAN 02,1975	
2,078	14,678	13 55	JAN 02,1975	
2,094	14,678	13 56	JAN 02,1975	
2,111	14,678	13 57	JAN 02,1975	
2,127	14,725	13 58	JAN 02,1975	
2,143	14,725	13 59	JAN 02,1975	
2,159	14,678	14 00	JAN 02,1975	
2,175	14,678	14 00	JAN 02,1975	
2,191	14,538	14 01	JAN 02,1975	
2,207	14,632	14 02	JAN 02,1975	
2,223	14,678	14 03	JAN 02,1975	
2,239	14,772	14 04	JAN 02,1975	
2,256	14,678	14 05	JAN 02,1975	
2,272	14,632	14 06	JAN 02,1975	
2,288	14,632	14 07	JAN 02,1975	
2,304	14,725	14 08	JAN 02,1975	
2,320	14,772	14 09	JAN 02,1975	
2,336	14,772	14 10	JAN 02,1975	
2,352	14,772	14 11	JAN 02,1975	
2,368	14,819	14 12	JAN 02,1975	
2,384	14,725	14 13	JAN 02,1975	
2,401	14,725	14 14	JAN 02,1975	
2,417	14,725	14 15	JAN 02,1975	END FLOW

II B-1463

151 POINTS REPORTED THIS RUN

PAGE 7





JOHNSTON  
Schlumberger

technical  
report



## EQUIPMENT &amp; HOLE DATA

Type Test	M.F.E. OPEN HOLE		
Formation Tested	GREEN RIVER		
Elevation	7036		Ft.
Net Productive Interval	50		Ft.
Estimated Porosity	-		%
All Depths Measured From	GROUND LEVEL		
Total Depth	2170		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	298'	I.D.	-
Drill Pipe Length	1788'	I.D.	-
Packer Depth(s)	2116' & 2120'		
			Ft.

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas \_\_\_\_\_

cc. Oil \_\_\_\_\_

cc. Water \_\_\_\_\_

cc. Mud \_\_\_\_\_

Tot. Liquid cc. \_\_\_\_\_

Gravity \_\_\_\_\_ ° API @ \_\_\_\_\_ ° F.

Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

### CHLORIDE CONTENT

Recovery Mud \_\_\_\_\_ @ \_\_\_\_\_ °F.  
Recovery Mud Filtrate \_\_\_\_\_ @ \_\_\_\_\_ °F. \_\_\_\_\_ ppm

Mud Pit Sample \_\_\_\_\_ @ \_\_\_\_\_ °F.  
Mud Pit Sample Filtrate \_\_\_\_\_ @ \_\_\_\_\_ °F. \_\_\_\_\_ ppm

Mud Type	WATER - FOAM		Wt.	-	
Viscosity	-		Water Loss	-	
Resist. of Mud	-	@ - °F	of Filtrate	-	@ - °F
Chloride Content	-				PPM

[illegible]

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Date 1-4-75

Field Report No. 09117 C

MR. JERRY L. BUSSELL

No. Reports Requested 14 (13x)



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u> (1-4-75)	<u>INCRE.</u>	<u>INSTRUMENT # 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT # 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-	-	708.0	715.9
TOOL OPENED	2	1602	0	133.7	152.9
CLOSED FOR INITIAL	3	1604	2	152.0	175.4
SHUT-IN			4	477.2	541.3
			6	635.8	656.7
			8	725.0	742.6
			10	784.0	808.8
			12	824.7	846.8
			14	841.7	865.1
			16	852.2	867.9
			18	858.7	869.3
			20	862.7	874.9
			22	865.3	877.7
			24	867.9	879.1
			26	870.5	880.5
			28	873.2	883.4
			30	874.5	884.8
			32	877.1	886.2
			34	878.4	886.2
			35	878.4	886.2
INITIAL SHUT-IN	4	1637			
TOOL RE-OPENED -	5	1637	35	263.5	285.2
INITIAL FLOW			36	284.4	307.7
			38	329.0	392.1
			40	368.4	406.2
			42	411.6	463.9
			44	441.8	490.7
			46	475.8	493.5
			48	500.8	528.7
			50	525.7	562.4
			52	553.2	569.5
			54	571.6	593.4
			56	595.2	620.2
			58	613.6	642.7
			60	630.6	653.9
			62	647.6	668.0
			64	666.0	687.7
			66	684.4	706.0
			68	697.5	715.9
			70	710.6	725.7
			72	725.0	741.2
			74	736.8	755.3
			76	748.6	763.7
			78	757.8	769.3
			80	767.0	780.6
			82	777.4	791.9
			84	785.3	794.7
			86	794.5	801.7
			88	801.1	808.8
			90	807.6	815.8
			92	815.5	822.8
			94	820.7	828.5
			96	826.0	838.3
			98	831.2	843.9





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT# 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			100	835.1	846.8
			102	840.4	851.0
			104	844.3	855.2
			106	848.3	859.4
			108	850.9	862.2
			110	854.8	865.1
			112	857.4	869.3
			114	860.1	872.1
			116	862.7	873.5
			118	865.3	874.9
			120	867.9	877.7
			122	869.2	879.1
			124	870.5	881.9
			126	871.9	881.9
			128	873.2	884.8
			130	875.8	886.2
			132	877.1	887.6
			134	878.4	889.0
			136	879.7	889.0
			138	881.0	890.4
			140	882.3	891.8
			142	883.6	893.2
			144	883.6	894.6
			146	885.0	896.0
			148	885.0	896.0
			150	886.3	896.0
			152	887.6	897.4
			154	888.9	898.8
			156	888.9	898.8
			158	890.2	900.2
			160	890.2	900.2
			162	891.5	901.7
			164	891.5	903.1
			166	892.8	903.1
			168	894.1	904.5
			170	894.1	904.5
			172	894.1	904.5
			174	895.5	905.9
			176	896.8	905.9
			178	896.8	907.3
			180	896.8	907.3
			182	898.1	907.3
			184	898.1	908.7
			186	899.4	908.7
			188	899.4	910.1
			190	900.7	910.1
			192	900.7	911.5
			194	902.0	912.9
			196	903.3	914.3
			198	904.6	915.7
			200	906.0	915.7
			202	906.0	917.1
			204	907.3	920.0
			206	907.3	918.5
			208	908.6	918.5

II B-1467



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT # 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			210	908.6	921.4
			212	909.9	921.4
			214	909.9	921.4
			216	909.9	921.4
			218	911.2	922.8
			220	912.5	922.8
			222	912.5	922.8
			224	912.5	924.1
			226	913.8	924.1
			228	913.8	924.1
			230	913.8	924.1
			232	913.8	924.1
STARTED JETTING WATER	6	1956	234	913.8	924.2
			236	920.4	924.2
			238	920.4	924.2
JETTING	7	2002	240	941.4	952.3
			242	726.3	746.8
JETTING	8	2005	243	717.1	737.0
			244	717.1	725.7
			246	713.2	720.1
			248	709.3	717.3
			250	708.0	717.3
			252	706.6	714.5
			254	704.0	713.0
			256	702.7	711.6
			258	701.4	710.2
			260	700.1	707.4
			262	698.8	706.0
			264	696.2	706.0
			266	698.8	708.9
			268	700.1	708.9
			270	700.1	708.9
			272	698.8	707.4
			274	698.8	707.4
			276	698.8	707.4
			278	698.8	706.0
			280	697.5	703.2
			282	696.2	703.2
			284	696.2	706.0
			286	697.5	706.0
			288	697.5	706.0
			290	697.5	706.0
			292	697.5	706.0
			294	697.5	706.0
JETTING	9	2058	296	697.5	706.0
FINISHED JETTING	10	2100	298	664.7	675.0
			300	688.3	706.0
			302	708.0	724.3
			304	723.7	740.0
			306	739.4	753.9
			308	753.9	767.9
		II B-1468	310	765.7	782.0
			312	779.0	798.9
			314	787.9	811.6
			316	797.1	814.4



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT# 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT# 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			318	807.6	822.8
			320	816.8	835.5
			322	824.7	843.9
			324	831.2	846.8
			326	837.8	855.2
			328	844.3	863.7
			330	850.9	867.9
			332	857.4	870.7
			334	861.4	874.9
			336	865.3	879.1
			338	869.2	883.4
			340	871.9	884.8
			342	875.8	890.0
			344	878.4	890.4
			346	879.7	893.2
			348	883.7	896.0
			350	885.0	898.8
			352	887.6	901.7
			354	890.2	903.1
			356	892.8	904.5
			358	894.1	907.3
			360	896.8	908.7
			362	898.1	910.1
			364	899.4	911.5
			366	900.7	912.9
			368	902.0	914.3
			370	903.3	914.3
			372	904.6	915.7
			374	906.0	915.7
			376	906.0	917.1
			378	907.3	918.5
			380	908.6	920.0
			382	909.9	920.0
			384	909.9	921.4
			386	911.2	922.8
			388	911.2	924.1
			390	912.5	924.1
			392	912.5	925.6
			394	913.8	925.6
			396	913.8	925.6
			398	915.1	927.0
			400	916.4	928.4
			402	916.4	928.4
			404	916.4	928.4
			406	916.4	928.4
			408	917.8	929.8
			410	919.1	929.8
			412	919.1	931.2
			414	919.1	932.6
			416	920.4	932.6
			418	920.4	932.6
			420	920.4	932.6
			422	921.7	934.0
			424	921.7	934.0
			426	923.0	935.4

II B-1469





<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT # 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT # 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			428	923.0	935.4
			430	923.0	935.4
			432	924.3	935.4
			434	924.3	936.8
			436	924.3	936.8
			438	925.6	936.8
			440	925.6	936.8
			442	925.6	936.8
			444	926.9	938.2
			446	926.9	939.7
			448	926.9	939.7
			450	928.2	939.7
			452	928.2	939.7
			454	928.2	939.7
			456	929.6	939.7
			458	929.6	941.1
			460	929.6	941.1
STARTED INJECTION - 2 GAL/MIN.			462	929.6	941.1
			464	930.9	943.9
			466	932.2	945.3
			468	933.5	945.3
			470	934.8	946.7
			472	934.8	946.7
			474	934.8	946.7
			476	934.8	946.7
			478	934.8	946.7
			480	934.8	946.7
			(1-5-75)		
STARTED - 5 GAL/MIN.	11	0004	482	934.8	946.7
			484	942.7	956.5
STARTED - 35 GAL/MIN.	12	0008	486	947.9	960.8
			488	947.9	960.8
			490	947.9	959.4
			492	947.9	959.4
			494	947.9	959.4
			496	947.9	959.4
			498	947.9	959.4
			500	947.9	959.4
FINISHED INJECTION-STARTED PRESSURE-			502	947.9	956.5
FALL OFF			504	946.6	955.1
			506	945.3	955.1
			508	942.7	953.7
			510	942.7	953.7
			512	942.7	953.7
			514	942.7	953.7
			516	942.7	953.7
			518	942.7	953.7
			520	942.7	953.7
			522	942.7	953.7
			524	942.7	953.7
			526	942.7	953.7
			528	942.7	953.7
			530	942.7	953.7
			532	942.7	953.7
			534	942.7	953.7



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT # 4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT # 4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			536	942.7	953.7
			538	942.7	953.7
CLOSED TOOL-PULLED PACKER					
LOOSE	13	0101	539	942.7	953.7
FINAL HYDROSTATIC	14	-	-	719.8	725.7
CAPACITY (P.S.I.G.)				2600	2800
INSTRUMENT DEPTH				2095'	2122'
INSTRUMENT OPENING				INSIDE	OUTSIDE

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.





FIELD REPORT NO.

09117 C

CAPACITY

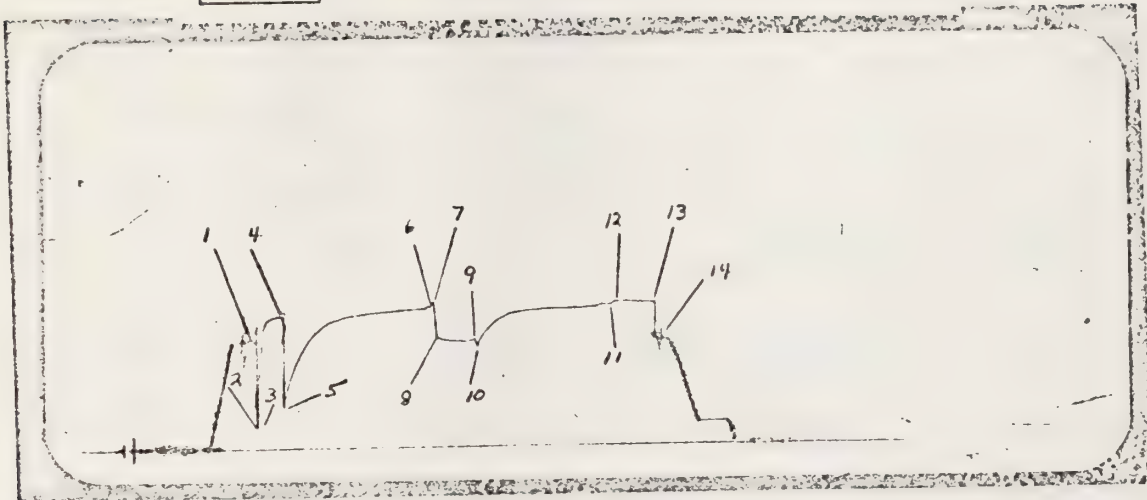
2600#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09117 C

CAPACITY

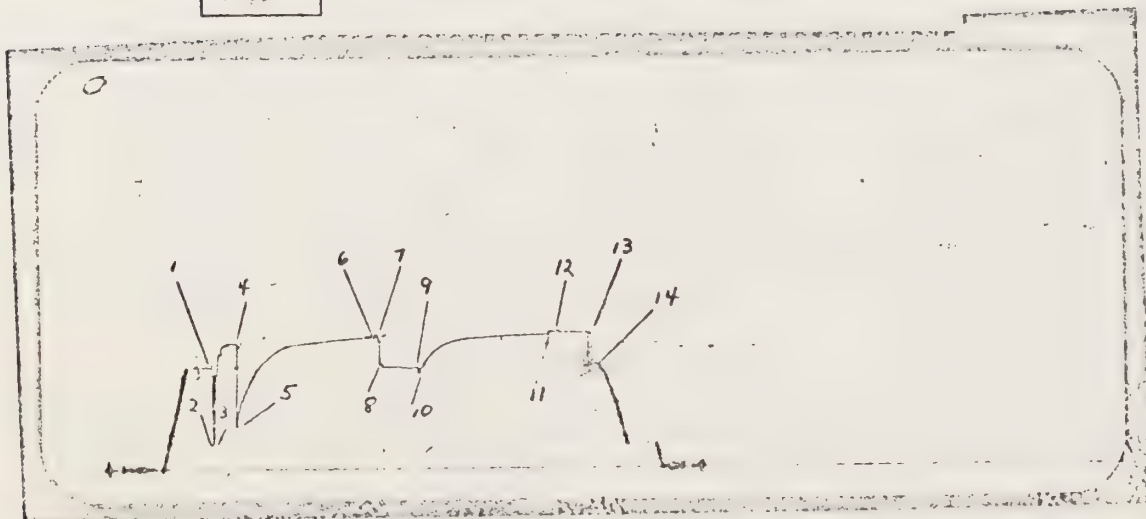
2800#

RECORDER NO.

4097 N

REPORTS REQUESTED

14+







Job No. 20-11296 Date 1/4/75 Run OST #134 Office CANINE  
Customer ... Location ...  
State ... County/Parish ...  
Well ... No. 17 Field ...

## USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. <u>1300</u>	<u>1/4/75</u>			
Depart: Well/Dock	1. <u>0430</u>	<u>1/5/75</u>			<u>27</u> Hrs.
Gauge Start in Hole	1. <u>1337</u>	<u>1/4/75</u>			
Gauge Out of Hole	1. <u>0357</u>	<u>1/5/75</u>			<u>26</u> Hrs.
No. Trips	<u>1</u>	Miles	<u>45</u>	Total Mileage	<u>90</u>

Top Gauge # 143 Element # 30949 Range 1000<sup>#</sup> Time Mode 1 MIN  
Btm. Gauge # 219 Element # 35988 Range 1400<sup>#</sup> Time Mode 1 MIN  
Type Tool ... Test Depth 2120-2170 Zero Point GROUND LEVEL  
Packer Depth 2116 Tail Pipe Depth 2170 Top Gauge Depth 2078  
Bottom Hole Temp. ... Atmos. Temp. ... Bottom Gauge Depth 2131

## TIME INFORMATION

Time Date

On Bottom 1600 1/4/75  
Packer Set 1600 "  
Initial Open 1602 "  
Initial Shut-In 1608-1634 "  
Start Flow 1637 "  
Final Shut-In 0101 1/5/75  
Packer Unseated 0106 1/5/75

## PRESSURE INFORMATION

Initial Hydrostatic Mud ...  
Initial Draw Down ...  
Initial Build-Up ...  
Final Flow ...  
Final Build-Up ...  
Final Hydrostatic Mud ...  
Mud Weight ...

## TIME OF SURFACE NULLS

Top Gauge 1350 1351 1352 Bottom Gauge 1334 1335 1336

Remarks ...  
... (initial or final) ...



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT C-B  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE 143 WITH 1000 LB ELEMENT

● GUGE DEPTH WAS 2078 FT, ANNULUS

PACKER SET AT 2120 FT,

GROUND LEVEL REFERENCE IS 7036 FT.

INITIAL HYDROSTATIC WAS 696.53 PSI

FINAL HYDROSTATIC 700.47 PSI

TEST INTERVAL WAS FROM SURFACE

TO 2120 PACKER DEPTH

II B-1474

466 POINTS REPORTED THIS JOB

PAGE 1 OF 14 PAGES



JOB NUMBER  
EPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 INITIAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	698.925	16 02	JAN 04, 1975	INITIAL OPEN

II B-1175

1 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
BPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 SHUTIN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	698,925	16 04	JAN 04, 1975	INITIAL SHUTIN
.016	699,233	16 05	JAN 04, 1975	
.031	699,067	16 06	JAN 04, 1975	
.047	698,687	16 07	JAN 04, 1975	
.063	707,912	16 08	JAN 04, 1975	
.079	698,000	16 09	JAN 04, 1975	
.094	698,023	16 10	JAN 04, 1975	
.110	698,000	16 11	JAN 04, 1975	
.126	697,763	16 12	JAN 04, 1975	
.141	697,620	16 12	JAN 04, 1975	
.157	697,525	16 13	JAN 04, 1975	
.173	697,573	16 14	JAN 04, 1975	
.189	697,359	16 15	JAN 04, 1975	
.204	697,312	16 16	JAN 04, 1975	
.220	697,241	16 17	JAN 04, 1975	
.236	697,193	16 18	JAN 04, 1975	
.251	697,193	16 19	JAN 04, 1975	
.267	697,122	16 20	JAN 04, 1975	
.283	697,099	16 21	JAN 04, 1975	
.299	697,075	16 22	JAN 04, 1975	
.314	697,075	16 23	JAN 04, 1975	
.330	697,051	16 24	JAN 04, 1975	
.346	697,004	16 25	JAN 04, 1975	
.361	697,004	16 26	JAN 04, 1975	
.377	697,004	16 27	JAN 04, 1975	
.393	696,980	16 28	JAN 04, 1975	
.409	697,051	16 29	JAN 04, 1975	
.424	697,004	16 29	JAN 04, 1975	
.440	697,004	16 30	JAN 04, 1975	
.456	697,004	16 31	JAN 04, 1975	
.471	697,004	16 32	JAN 04, 1975	
.487	697,004	16 33	JAN 04, 1975	
.503	697,004	16 34	JAN 04, 1975	
.519	697,027	16 35	JAN 04, 1975	
.534	697,004	16 36	JAN 04, 1975	
.550	705,849	16 37	JAN 04, 1975	END SHUT IN

II B-1476

36 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	705.849	16 37	JAN 04, 1975	FINAL OPEN
.017	697.407	16 38	JAN 04, 1975	
.033	697.454	16 39	JAN 04, 1975	
.050	697.668	16 40	JAN 04, 1975	
.067	697.454	16 41	JAN 04, 1975	
.083	697.502	16 42	JAN 04, 1975	
.100	697.431	16 43	JAN 04, 1975	
.117	697.431	16 44	JAN 04, 1975	
.133	697.431	16 45	JAN 04, 1975	
.150	697.407	16 46	JAN 04, 1975	
.167	697.383	16 47	JAN 04, 1975	
.183	697.336	16 48	JAN 04, 1975	
.200	697.383	16 49	JAN 04, 1975	
.217	697.383	16 50	JAN 04, 1975	
.233	697.336	16 51	JAN 04, 1975	
.250	697.407	16 52	JAN 04, 1975	
.267	697.359	16 53	JAN 04, 1975	
.283	697.407	16 54	JAN 04, 1975	
.300	697.407	16 55	JAN 04, 1975	
.317	697.407	16 56	JAN 04, 1975	
.333	697.431	16 57	JAN 04, 1975	
.350	697.431	16 58	JAN 04, 1975	
.367	697.431	16 59	JAN 04, 1975	
.383	697.454	17 00	JAN 04, 1975	
.400	697.454	17 01	JAN 04, 1975	
.417	697.478	17 02	JAN 04, 1975	
.433	697.478	17 03	JAN 04, 1975	
.450	697.478	17 04	JAN 04, 1975	
.467	697.502	17 05	JAN 04, 1975	
.483	697.502	17 06	JAN 04, 1975	
.500	697.549	17 07	JAN 04, 1975	
.517	697.525	17 08	JAN 04, 1975	
.533	697.573	17 09	JAN 04, 1975	
.550	697.525	17 10	JAN 04, 1975	
.567	697.573	17 11	JAN 04, 1975	
.583	697.573	17 12	JAN 04, 1975	
.600	697.620	17 13	JAN 04, 1975	
.617	697.597	17 14	JAN 04, 1975	
.633	697.668	17 15	JAN 04, 1975	
.650	697.597	17 16	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	697,644	17 17	JAN 04, 1975	
.683	697,715	17 18	JAN 04, 1975	
.700	697,691	17 19	JAN 04, 1975	
.717	697,668	17 20	JAN 04, 1975	
.733	697,691	17 21	JAN 04, 1975	
.750	697,739	17 22	JAN 04, 1975	
.767	697,739	17 23	JAN 04, 1975	
.783	697,763	17 24	JAN 04, 1975	
.800	697,763	17 25	JAN 04, 1975	
.817	697,786	17 26	JAN 04, 1975	
.833	697,786	17 27	JAN 04, 1975	
.850	697,810	17 28	JAN 04, 1975	
.867	697,786	17 29	JAN 04, 1975	
.883	697,834	17 30	JAN 04, 1975	
.900	697,834	17 31	JAN 04, 1975	
.917	697,857	17 32	JAN 04, 1975	
.933	697,881	17 33	JAN 04, 1975	
.950	697,857	17 34	JAN 04, 1975	
.967	697,881	17 35	JAN 04, 1975	
.983	697,881	17 36	JAN 04, 1975	
1.000	697,905	17 37	JAN 04, 1975	
1.017	697,905	17 38	JAN 04, 1975	
1.033	697,929	17 39	JAN 04, 1975	
1.050	697,952	17 40	JAN 04, 1975	
1.067	697,976	17 41	JAN 04, 1975	
1.083	698,000	17 42	JAN 04, 1975	
1.100	698,000	17 43	JAN 04, 1975	
1.117	697,976	17 44	JAN 04, 1975	
1.133	697,976	17 45	JAN 04, 1975	
1.150	698,000	17 46	JAN 04, 1975	
1.167	698,047	17 47	JAN 04, 1975	
1.183	698,047	17 48	JAN 04, 1975	
1.200	698,047	17 49	JAN 04, 1975	
1.217	698,071	17 50	JAN 04, 1975	
1.233	698,071	17 51	JAN 04, 1975	
1.250	698,142	17 52	JAN 04, 1975	
1.267	698,142	17 53	JAN 04, 1975	
1.283	698,142	17 54	JAN 04, 1975	
1.300	698,166	17 55	JAN 04, 1975	
1.317	698,213	17 56	JAN 04, 1975	





JOB NUMBER  
BPG-11210-CG

DATE OF JCB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1.333	698,189	17 57	JAN 04,1975	
1.350	698,237	17 58	JAN 04,1975	
1.367	698,237	17 59	JAN 04,1975	
1.383	698,213	18 00	JAN 04,1975	
1.400	698,237	18 01	JAN 04,1975	
1.417	698,261	18 02	JAN 04,1975	
1.433	698,284	18 03	JAN 04,1975	
1.450	698,355	18 04	JAN 04,1975	
1.467	698,332	18 05	JAN 04,1975	
1.483	698,284	18 06	JAN 04,1975	
1.500	698,379	18 07	JAN 04,1975	
1.517	698,355	18 08	JAN 04,1975	
1.533	698,355	18 09	JAN 04,1975	
1.550	698,403	18 10	JAN 04,1975	
1.567	698,403	18 11	JAN 04,1975	
1.583	698,403	18 12	JAN 04,1975	
1.600	698,403	18 13	JAN 04,1975	
1.617	698,403	18 14	JAN 04,1975	
1.633	698,427	18 15	JAN 04,1975	
1.650	698,450	18 16	JAN 04,1975	
1.667	698,450	18 17	JAN 04,1975	
1.683	698,474	18 18	JAN 04,1975	
1.700	698,498	18 19	JAN 04,1975	
1.717	698,474	18 20	JAN 04,1975	
1.733	698,545	18 21	JAN 04,1975	
1.750	698,521	18 22	JAN 04,1975	
1.767	698,545	18 23	JAN 04,1975	
1.783	698,545	18 24	JAN 04,1975	
1.800	698,545	18 25	JAN 04,1975	
1.817	698,545	18 26	JAN 04,1975	
1.833	698,569	18 27	JAN 04,1975	
1.850	698,569	18 28	JAN 04,1975	
1.867	698,569	18 29	JAN 04,1975	
1.883	698,616	18 30	JAN 04,1975	
1.900	698,616	18 31	JAN 04,1975	
1.917	698,640	18 32	JAN 04,1975	
1.933	698,640	18 33	JAN 04,1975	
1.950	698,640	18 34	JAN 04,1975	
1.967	698,640	18 35	JAN 04,1975	
1.983	698,687	18 36	JAN 04,1975	



JOB NUMBER  
8PG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPLY

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2.000	698,664	18 37	JAN 04, 1975	
2.017	698,687	18 38	JAN 04, 1975	
2.033	698,711	18 39	JAN 04, 1975	
2.050	698,735	18 40	JAN 04, 1975	
2.067	698,735	18 41	JAN 04, 1975	
2.083	698,735	18 42	JAN 04, 1975	
2.100	698,735	18 43	JAN 04, 1975	
2.117	698,735	18 44	JAN 04, 1975	
2.133	698,735	18 45	JAN 04, 1975	
2.150	698,806	18 46	JAN 04, 1975	
2.167	698,782	18 47	JAN 04, 1975	
2.183	698,782	18 48	JAN 04, 1975	
2.200	698,782	18 49	JAN 04, 1975	
2.217	698,806	18 50	JAN 04, 1975	
2.233	698,806	18 51	JAN 04, 1975	
2.250	698,853	18 52	JAN 04, 1975	
2.267	698,853	18 53	JAN 04, 1975	
2.283	698,853	18 54	JAN 04, 1975	
2.300	698,877	18 55	JAN 04, 1975	
2.317	698,877	18 56	JAN 04, 1975	
2.333	698,901	18 57	JAN 04, 1975	
2.350	698,925	18 58	JAN 04, 1975	
2.367	698,925	18 59	JAN 04, 1975	
2.383	698,901	19 00	JAN 04, 1975	
2.400	698,948	19 01	JAN 04, 1975	
2.417	698,925	19 02	JAN 04, 1975	
2.433	698,972	19 03	JAN 04, 1975	
2.450	698,925	19 04	JAN 04, 1975	
2.467	698,948	19 05	JAN 04, 1975	
2.483	698,972	19 06	JAN 04, 1975	
2.500	698,972	19 07	JAN 04, 1975	
2.517	698,972	19 08	JAN 04, 1975	
2.533	698,972	19 09	JAN 04, 1975	
2.550	699,043	19 10	JAN 04, 1975	
2.567	698,996	19 11	JAN 04, 1975	
2.583	699,043	19 12	JAN 04, 1975	
2.600	699,067	19 13	JAN 04, 1975	
2.617	699,067	19 14	JAN 04, 1975	
2.633	699,043	19 15	JAN 04, 1975	
2.650	699,091	19 16	JAN 04, 1975	



JOB NUMBER  
8PG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	699,043	19 17	JAN 04, 1975	
2,683	699,091	19 18	JAN 04, 1975	
2,700	699,091	19 19	JAN 04, 1975	
2,717	699,114	19 20	JAN 04, 1975	
2,733	699,138	19 21	JAN 04, 1975	
2,750	699,162	19 22	JAN 04, 1975	
2,767	699,043	19 23	JAN 04, 1975	
2,783	699,162	19 24	JAN 04, 1975	
2,800	699,162	19 25	JAN 04, 1975	
2,817	699,162	19 26	JAN 04, 1975	
2,833	699,162	19 27	JAN 04, 1975	
2,850	699,185	19 28	JAN 04, 1975	
2,867	699,185	19 29	JAN 04, 1975	
2,883	699,233	19 30	JAN 04, 1975	
2,900	699,209	19 31	JAN 04, 1975	
2,917	699,233	19 32	JAN 04, 1975	
2,933	699,257	19 33	JAN 04, 1975	
2,950	699,280	19 34	JAN 04, 1975	
2,967	699,304	19 35	JAN 04, 1975	
2,983	699,304	19 36	JAN 04, 1975	
3,000	699,280	19 37	JAN 04, 1975	
3,017	699,304	19 38	JAN 04, 1975	
3,033	699,351	19 39	JAN 04, 1975	
3,050	699,328	19 40	JAN 04, 1975	
3,067	699,351	19 41	JAN 04, 1975	
3,083	699,328	19 42	JAN 04, 1975	
3,100	699,328	19 43	JAN 04, 1975	
3,117	699,351	19 44	JAN 04, 1975	
3,133	699,399	19 45	JAN 04, 1975	
3,150	699,399	19 46	JAN 04, 1975	
3,167	699,375	19 47	JAN 04, 1975	
3,183	699,423	19 48	JAN 04, 1975	
3,200	699,446	19 49	JAN 04, 1975	
3,217	699,423	19 50	JAN 04, 1975	
3,233	699,423	19 51	JAN 04, 1975	
3,250	699,399	19 52	JAN 04, 1975	
3,267	699,399	19 53	JAN 04, 1975	
3,283	699,423	19 54	JAN 04, 1975	
3,300	699,423	19 55	JAN 04, 1975	
3,317	699,446	19 56	JAN 04, 1975	





JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,333	699,446	19 57	JAN 04,1975	
3,350	699,446	19 58	JAN 04,1975	
3,367	699,423	19 59	JAN 04,1975	
3,383	699,423	20 00	JAN 04,1975	START JETTING
3,400	699,446	20 01	JAN 04,1975	AT 6 GPM
3,417	699,446	20 02	JAN 04,1975	
3,433	699,446	20 03	JAN 04,1975	
3,450	699,446	20 04	JAN 04,1975	
3,467	699,470	20 05	JAN 04,1975	
3,483	699,470	20 06	JAN 04,1975	
3,500	699,494	20 07	JAN 04,1975	
3,517	699,470	20 08	JAN 04,1975	
3,533	699,470	20 09	JAN 04,1975	
3,550	699,470	20 10	JAN 04,1975	
3,567	699,470	20 11	JAN 04,1975	
3,583	699,446	20 12	JAN 04,1975	
3,600	699,494	20 13	JAN 04,1975	
3,617	699,541	20 14	JAN 04,1975	
3,633	699,470	20 15	JAN 04,1975	
3,650	699,470	20 16	JAN 04,1975	
3,667	699,494	20 17	JAN 04,1975	
3,683	699,494	20 18	JAN 04,1975	
3,700	699,494	20 19	JAN 04,1975	
3,717	699,494	20 20	JAN 04,1975	
3,733	699,494	20 21	JAN 04,1975	
3,750	699,494	20 22	JAN 04,1975	
3,767	699,517	20 23	JAN 04,1975	
3,783	699,494	20 24	JAN 04,1975	
3,800	699,494	20 25	JAN 04,1975	
3,817	699,541	20 26	JAN 04,1975	
3,833	699,517	20 27	JAN 04,1975	
3,850	699,517	20 28	JAN 04,1975	
3,867	699,517	20 29	JAN 04,1975	
3,883	699,541	20 30	JAN 04,1975	
3,900	699,565	20 31	JAN 04,1975	
3,917	699,541	20 32	JAN 04,1975	
3,933	699,612	20 33	JAN 04,1975	
3,950	699,588	20 34	JAN 04,1975	
3,967	699,588	20 35	JAN 04,1975	
3,983	699,565	20 36	JAN 04,1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,000	699,588	20 37	JAN 04, 1975	
4,017	699,612	20 38	JAN 04, 1975	
4,033	699,612	20 39	JAN 04, 1975	
4,050	699,636	20 40	JAN 04, 1975	
4,067	699,612	20 41	JAN 04, 1975	
4,083	699,612	20 42	JAN 04, 1975	
4,100	699,636	20 43	JAN 04, 1975	
4,117	699,636	20 44	JAN 04, 1975	
4,133	699,636	20 45	JAN 04, 1975	
4,150	699,660	20 46	JAN 04, 1975	
4,167	699,683	20 47	JAN 04, 1975	
4,183	699,683	20 48	JAN 04, 1975	
4,200	699,707	20 49	JAN 04, 1975	
4,217	699,707	20 50	JAN 04, 1975	
4,233	699,707	20 51	JAN 04, 1975	
4,250	699,707	20 52	JAN 04, 1975	
4,267	699,707	20 53	JAN 04, 1975	
4,283	699,731	20 54	JAN 04, 1975	
4,300	699,731	20 55	JAN 04, 1975	
4,317	699,707	20 56	JAN 04, 1975	
4,333	699,731	20 57	JAN 04, 1975	
4,350	699,778	20 58	JAN 04, 1975	
4,367	699,754	20 59	JAN 04, 1975	
4,383	699,754	21 00	JAN 04, 1975	END JETTING
4,400	699,802	21 01	JAN 04, 1975	
4,417	699,826	21 02	JAN 04, 1975	
4,433	699,826	21 03	JAN 04, 1975	
4,450	699,802	21 04	JAN 04, 1975	
4,467	699,778	21 05	JAN 04, 1975	
4,483	699,849	21 06	JAN 04, 1975	
4,500	699,849	21 07	JAN 04, 1975	
4,517	699,826	21 08	JAN 04, 1975	
4,533	699,849	21 09	JAN 04, 1975	
4,550	699,873	21 10	JAN 04, 1975	
4,567	699,873	21 11	JAN 04, 1975	
4,583	699,897	21 12	JAN 04, 1975	
4,600	699,920	21 13	JAN 04, 1975	
4,617	699,897	21 14	JAN 04, 1975	
4,633	699,920	21 15	JAN 04, 1975	
4,650	699,920	21 16	JAN 04, 1975	



JOB NUMBER  
8PG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4,667	699,944	21 17	JAN 04, 1975	
4,683	699,968	21 18	JAN 04, 1975	
4,700	699,920	21 19	JAN 04, 1975	
4,717	699,968	21 20	JAN 04, 1975	
4,733	699,992	21 21	JAN 04, 1975	
4,750	699,968	21 22	JAN 04, 1975	
4,767	700,015	21 23	JAN 04, 1975	
4,783	699,992	21 24	JAN 04, 1975	
4,800	700,015	21 25	JAN 04, 1975	
4,817	700,039	21 26	JAN 04, 1975	
4,833	700,015	21 27	JAN 04, 1975	
4,850	700,063	21 28	JAN 04, 1975	
4,867	700,063	21 29	JAN 04, 1975	
4,883	700,110	21 30	JAN 04, 1975	
4,900	700,134	21 31	JAN 04, 1975	
4,917	700,063	21 32	JAN 04, 1975	
4,933	700,110	21 33	JAN 04, 1975	
4,950	700,134	21 34	JAN 04, 1975	
4,967	700,134	21 35	JAN 04, 1975	
4,983	700,134	21 36	JAN 04, 1975	
5,000	700,134	21 37	JAN 04, 1975	
5,017	700,181	21 38	JAN 04, 1975	
5,033	700,181	21 39	JAN 04, 1975	
5,050	700,205	21 40	JAN 04, 1975	
5,067	700,158	21 41	JAN 04, 1975	
5,083	700,205	21 42	JAN 04, 1975	
5,100	700,205	21 43	JAN 04, 1975	
5,117	700,229	21 44	JAN 04, 1975	
6,400	719,413	23 01	JAN 04, 1975	GAUGE STOPPED
6,417	724,630	23 02	JAN 04, 1975	GAUGE STARTED
6,433	724,772	23 03	JAN 04, 1975	DURING 60 GPM
6,450	724,843	23 04	JAN 04, 1975	DOWN ANNULUS
6,467	724,914	23 05	JAN 04, 1975	
6,483	725,009	23 06	JAN 04, 1975	
6,500	725,056	23 07	JAN 04, 1975	
6,517	725,199	23 08	JAN 04, 1975	
6,533	725,294	23 09	JAN 04, 1975	
6,550	725,412	23 10	JAN 04, 1975	
6,567	725,483	23 11	JAN 04, 1975	
6,583	725,531	23 12	JAN 04, 1975	





JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,600	725,626	23 13	JAN 04, 1975	
6,617	725,649	23 14	JAN 04, 1975	
6,633	725,744	23 15	JAN 04, 1975	
6,650	725,839	23 16	JAN 04, 1975	
6,667	725,863	23 17	JAN 04, 1975	
6,683	725,910	23 18	JAN 04, 1975	
6,700	726,005	23 19	JAN 04, 1975	
6,717	726,076	23 20	JAN 04, 1975	DECLINE AFTER
6,733	725,792	23 21	JAN 04, 1975	ANNULUS INJECT
6,750	723,397	23 22	JAN 04, 1975	
6,767	720,693	23 23	JAN 04, 1975	
6,783	718,251	23 24	JAN 04, 1975	
6,800	716,164	23 25	JAN 04, 1975	
6,817	714,314	23 26	JAN 04, 1975	
6,833	712,678	23 27	JAN 04, 1975	
6,850	711,303	23 28	JAN 04, 1975	
6,867	710,188	23 29	JAN 04, 1975	
6,883	709,240	23 30	JAN 04, 1975	
6,900	708,410	23 31	JAN 04, 1975	
6,917	707,627	23 32	JAN 04, 1975	
6,933	706,987	23 33	JAN 04, 1975	
6,950	706,442	23 34	JAN 04, 1975	
6,967	705,920	23 35	JAN 04, 1975	
6,983	705,469	23 36	JAN 04, 1975	
7,000	705,161	23 37	JAN 04, 1975	
7,017	704,782	23 38	JAN 04, 1975	
7,033	704,497	23 39	JAN 04, 1975	
7,050	704,236	23 40	JAN 04, 1975	END DECLINE
7,067	704,023	23 41	JAN 04, 1975	
7,083	703,833	23 42	JAN 04, 1975	
7,100	703,572	23 43	JAN 04, 1975	
7,117	703,383	23 44	JAN 04, 1975	
7,133	703,288	23 45	JAN 04, 1975	2 GPM INSIDE
7,150	703,098	23 46	JAN 04, 1975	DRILL PIPE
7,167	702,979	23 47	JAN 04, 1975	
7,183	702,861	23 48	JAN 04, 1975	
7,200	702,813	23 49	JAN 04, 1975	
7,217	702,553	23 50	JAN 04, 1975	
7,233	702,505	23 51	JAN 04, 1975	
7,250	702,553	23 52	JAN 04, 1975	



JOB NUMBER  
SPG-11210-CG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7,267	702,482	23 53	JAN 04,1975	
7,283	702,434	23 54	JAN 04,1975	
7,300	702,363	23 55	JAN 04,1975	
7,317	702,316	23 56	JAN 04,1975	
7,333	702,292	23 57	JAN 04,1975	
7,350	702,244	23 58	JAN 04,1975	
7,367	702,197	23 59	JAN 04,1975	
7,383	702,126	00 00	JAN 05,1975	
7,400	702,150	00 01	JAN 05,1975	
7,417	702,126	00 02	JAN 05,1975	
7,433	702,150	00 03	JAN 05,1975	
7,450	702,078	00 04	JAN 05,1975	
7,467	702,007	00 05	JAN 05,1975	5 GPM INSIDE
7,483	702,031	00 06	JAN 05,1975	DRILL PIPE
7,500	702,007	00 07	JAN 05,1975	
7,517	701,984	00 08	JAN 05,1975	OVERFLOW AT
7,533	701,984	00 09	JAN 05,1975	3.5 GPM
7,550	701,984	00 10	JAN 05,1975	
7,567	701,936	00 11	JAN 05,1975	
7,583	701,960	00 12	JAN 05,1975	
7,600	701,960	00 13	JAN 05,1975	
7,617	702,031	00 14	JAN 05,1975	
7,633	701,984	00 15	JAN 05,1975	
7,650	701,984	00 16	JAN 05,1975	
7,667	702,007	00 17	JAN 05,1975	
7,683	702,007	00 18	JAN 05,1975	
7,700	701,984	00 19	JAN 05,1975	
7,717	701,960	00 20	JAN 05,1975	
7,733	702,031	00 21	JAN 05,1975	
7,750	702,031	00 22	JAN 05,1975	
7,767	702,031	00 23	JAN 05,1975	
7,783	702,007	00 24	JAN 05,1975	
7,800	702,007	00 25	JAN 05,1975	START DECLINE
7,817	702,031	00 26	JAN 05,1975	
7,833	702,031	00 27	JAN 05,1975	
7,850	702,031	00 28	JAN 05,1975	
7,867	702,055	00 29	JAN 05,1975	
7,883	702,031	00 30	JAN 05,1975	
7,900	702,007	00 31	JAN 05,1975	
7,917	702,007	00 32	JAN 05,1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
143 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7.933	702,007	00 33	JAN 05, 1975	
7.950	702,031	00 34	JAN 05, 1975	
7.967	702,007	00 35	JAN 05, 1975	
7.983	702,007	00 36	JAN 05, 1975	
8.000	702,007	00 37	JAN 05, 1975	
8.017	701,984	00 38	JAN 05, 1975	
8.033	701,960	00 39	JAN 05, 1975	
8.050	701,984	00 40	JAN 05, 1975	
8.067	702,007	00 41	JAN 05, 1975	
8.083	702,007	00 42	JAN 05, 1975	
8.100	702,007	00 43	JAN 05, 1975	
8.117	701,960	00 44	JAN 05, 1975	
8.133	702,031	00 45	JAN 05, 1975	
8.150	702,007	00 46	JAN 05, 1975	
8.167	701,984	00 47	JAN 05, 1975	
8.183	701,984	00 48	JAN 05, 1975	
8.200	701,984	00 49	JAN 05, 1975	
8.217	702,031	00 50	JAN 05, 1975	
8.233	702,031	00 51	JAN 05, 1975	
8.250	702,007	00 52	JAN 05, 1975	
8.267	702,055	00 53	JAN 05, 1975	
8.283	702,031	00 54	JAN 05, 1975	
8.300	701,984	00 55	JAN 05, 1975	END DECLINE
8.317	702,007	00 56	JAN 05, 1975	
8.333	702,007	00 57	JAN 05, 1975	
8.350	702,055	00 58	JAN 05, 1975	
8.367	702,055	00 59	JAN 05, 1975	
8.384	702,031	01 00	JAN 05, 1975	
8.400	702,031	01 01	JAN 05, 1975	END TEST

II B-1487

429 POINTS REPORTED THIS RUN

PAGE 14





JOB NUMBER  
SPG-11210-CG

DATE OF JOB  
JANUARY 04, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SCRUGH GULCH TRACT C-B  
COUNTY/PARISH   RIC BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 219 WITH 1400 LB ELEMENT  
GAUGE DEPTH WAS 2131 FT, INSIDE DP  
PACKER SET AT 2120 FT  
GROUND LEVEL REFERENCE IS 7036 FT  
TEST INTERVAL WAS FROM 2120 FT  
PACKER DEPTH TO 2170 FT

II B-1488

537 POINTS REPORTED THIS JOB

PAGE 1 OF 16 PAGES



JOB NUMBER  
8PG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
214 DST-34 INITIAL CPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	43,446	16	02 JAN 04, 1975	INITIAL CPEN

II B-1489

1 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 SHUT-IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	43,446	16 04	JAN 04, 1975	INITIAL CLOSE
.017	263,451	16 05	JAN 04, 1975	
.033	497,729	16 06	JAN 04, 1975	
.050	563,892	16 07	JAN 04, 1975	
.067	602,654	16 08	JAN 04, 1975	
.083	650,275	16 09	JAN 04, 1975	
.100	656,508	16 10	JAN 04, 1975	
.117	677,803	16 11	JAN 04, 1975	
.133	695,934	16 12	JAN 04, 1975	
.150	705,680	16 13	JAN 04, 1975	
.167	712,673	16 14	JAN 04, 1975	
.183	717,641	16 15	JAN 04, 1975	
.200	721,533	16 16	JAN 04, 1975	
.217	724,602	16 17	JAN 04, 1975	
.233	727,133	16 18	JAN 04, 1975	
.250	729,285	16 19	JAN 04, 1975	
.267	731,183	16 20	JAN 04, 1975	
.283	732,924	16 21	JAN 04, 1975	
.300	734,506	16 22	JAN 04, 1975	
.317	735,772	16 23	JAN 04, 1975	
.333	737,069	16 24	JAN 04, 1975	
.350	738,366	16 25	JAN 04, 1975	
.367	739,505	16 26	JAN 04, 1975	
.383	740,613	16 27	JAN 04, 1975	
.400	741,657	16 28	JAN 04, 1975	
.417	742,543	16 29	JAN 04, 1975	
.433	743,524	16 30	JAN 04, 1975	
.450	744,315	16 31	JAN 04, 1975	
.467	745,264	16 32	JAN 04, 1975	
.483	746,024	16 33	JAN 04, 1975	
.500	746,846	16 34	JAN 04, 1975	END SHUT-IN

II B-1490

31 POINTS REPORTED THIS RUN

PAGE 3





JOB NUMBER  
BPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	747,056	16 37	JAN 04, 1975	START FINAL FLCH
,016	86,856	16 38	JAN 04, 1975	
,033	85,593	16 39	JAN 04, 1975	
,049	109,288	16 40	JAN 04, 1975	
,066	132,383	16 41	JAN 04, 1975	
,082	157,216	16 42	JAN 04, 1975	
,098	176,804	16 43	JAN 04, 1975	
,115	196,329	16 44	JAN 04, 1975	
,131	214,818	16 45	JAN 04, 1975	
,148	231,968	16 46	JAN 04, 1975	
,164	247,662	16 47	JAN 04, 1975	
,180	263,451	16 48	JAN 04, 1975	
,197	278,956	16 49	JAN 04, 1975	
,213	293,574	16 50	JAN 04, 1975	
,230	307,307	16 51	JAN 04, 1975	
,246	319,869	16 52	JAN 04, 1975	
,262	331,577	16 53	JAN 04, 1975	
,279	346,195	16 54	JAN 04, 1975	
,295	357,681	16 55	JAN 04, 1975	
,312	369,231	16 56	JAN 04, 1975	
,328	379,894	16 57	JAN 04, 1975	
,345	389,893	16 58	JAN 04, 1975	
,361	402,233	16 59	JAN 04, 1975	
,377	411,599	17 00	JAN 04, 1975	
,394	424,383	17 01	JAN 04, 1975	
,410	430,553	17 02	JAN 04, 1975	
,427	439,729	17 03	JAN 04, 1975	
,443	448,430	17 04	JAN 04, 1975	
,459	456,911	17 05	JAN 04, 1975	
,476	465,201	17 06	JAN 04, 1975	
,492	473,175	17 07	JAN 04, 1975	
,509	480,642	17 08	JAN 04, 1975	
,525	488,078	17 08	JAN 04, 1975	
,541	495,577	17 09	JAN 04, 1975	
,558	502,538	17 10	JAN 04, 1975	
,574	509,310	17 11	JAN 04, 1975	
,591	515,765	17 12	JAN 04, 1975	
,607	522,156	17 13	JAN 04, 1975	
,623	528,516	17 14	JAN 04, 1975	
,640	534,782	17 15	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DBT-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.656	540,382	17 16	JAN 04, 1975	
.673	545,825	17 17	JAN 04, 1975	
.689	551,046	17 18	JAN 04, 1975	
.705	555,950	17 19	JAN 04, 1975	
.722	560,886	17 20	JAN 04, 1975	
.738	565,696	17 21	JAN 04, 1975	
.755	570,410	17 22	JAN 04, 1975	
.771	574,935	17 23	JAN 04, 1975	
.787	579,112	17 24	JAN 04, 1975	
.804	583,130	17 25	JAN 04, 1975	
.820	587,149	17 26	JAN 04, 1975	
.837	590,978	17 27	JAN 04, 1975	
.853	594,490	17 28	JAN 04, 1975	
.870	598,129	17 29	JAN 04, 1975	
.886	601,198	17 30	JAN 04, 1975	
.902	605,058	17 31	JAN 04, 1975	
.919	608,349	17 32	JAN 04, 1975	
.935	611,514	17 33	JAN 04, 1975	
.952	614,715	17 34	JAN 04, 1975	
.968	617,567	17 35	JAN 04, 1975	
.984	588,763	17 36	JAN 04, 1975	
1.001	623,145	17 37	JAN 04, 1975	
1.017	625,712	17 38	JAN 04, 1975	
1.034	628,247	17 39	JAN 04, 1975	
1.050	630,655	17 40	JAN 04, 1975	
1.066	632,842	17 41	JAN 04, 1975	
1.083	634,997	17 42	JAN 04, 1975	
1.099	637,120	17 43	JAN 04, 1975	
1.116	638,958	17 44	JAN 04, 1975	
1.132	641,113	17 45	JAN 04, 1975	
1.148	642,920	17 46	JAN 04, 1975	
1.165	644,631	17 47	JAN 04, 1975	
1.181	646,342	17 48	JAN 04, 1975	
1.198	647,959	17 49	JAN 04, 1975	
1.214	649,512	17 50	JAN 04, 1975	
1.230	651,001	17 51	JAN 04, 1975	
1.247	652,522	17 52	JAN 04, 1975	
1.263	653,917	17 53	JAN 04, 1975	
1.280	655,248	17 54	JAN 04, 1975	
1.296	656,610	17 55	JAN 04, 1975	



JOB NUMBER  
BPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLCK

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,312	657,910	17 56	JAN 04, 1975	
1,329	659,082	17 57	JAN 04, 1975	
1,345	660,191	17 58	JAN 04, 1975	
1,362	661,301	17 59	JAN 04, 1975	
1,378	662,315	18 00	JAN 04, 1975	
1,395	663,360	18 01	JAN 04, 1975	
1,411	664,279	18 02	JAN 04, 1975	
1,427	665,198	18 03	JAN 04, 1975	
1,444	666,149	18 04	JAN 04, 1975	
1,460	667,068	18 05	JAN 04, 1975	
1,477	667,987	18 06	JAN 04, 1975	
1,493	668,780	18 07	JAN 04, 1975	
1,509	669,572	18 08	JAN 04, 1975	
1,526	670,427	18 09	JAN 04, 1975	
1,542	671,156	18 10	JAN 04, 1975	
1,559	671,822	18 11	JAN 04, 1975	
1,575	672,519	18 11	JAN 04, 1975	
1,591	673,216	18 12	JAN 04, 1975	
1,608	673,818	18 13	JAN 04, 1975	
1,624	674,484	18 14	JAN 04, 1975	
1,641	675,118	18 15	JAN 04, 1975	
1,657	675,720	18 16	JAN 04, 1975	
1,673	676,259	18 17	JAN 04, 1975	
1,690	676,861	18 18	JAN 04, 1975	
1,706	677,431	18 19	JAN 04, 1975	
1,723	678,002	18 20	JAN 04, 1975	
1,739	678,477	18 21	JAN 04, 1975	
1,755	679,016	18 22	JAN 04, 1975	
1,772	679,491	18 23	JAN 04, 1975	
1,788	679,998	18 24	JAN 04, 1975	
1,805	680,473	18 25	JAN 04, 1975	
1,821	681,012	18 26	JAN 04, 1975	
1,837	681,488	18 27	JAN 04, 1975	
1,854	681,931	18 28	JAN 04, 1975	
1,870	682,375	18 29	JAN 04, 1975	
1,887	682,882	18 30	JAN 04, 1975	
1,903	683,326	18 31	JAN 04, 1975	
1,920	683,738	18 32	JAN 04, 1975	
1,936	684,213	18 33	JAN 04, 1975	
1,952	684,657	18 34	JAN 04, 1975	





JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,969	685,132	18 35	JAN 04, 1975	
1,985	685,544	18 36	JAN 04, 1975	
2,002	685,956	18 37	JAN 04, 1975	
2,018	686,336	18 38	JAN 04, 1975	
2,034	686,717	18 39	JAN 04, 1975	
2,051	687,033	18 40	JAN 04, 1975	
2,067	687,509	18 41	JAN 04, 1975	
2,084	687,857	18 42	JAN 04, 1975	
2,100	688,206	18 43	JAN 04, 1975	
2,116	688,555	18 44	JAN 04, 1975	
2,133	688,967	18 45	JAN 04, 1975	
2,149	689,315	18 46	JAN 04, 1975	
2,166	689,632	18 47	JAN 04, 1975	
2,182	690,044	18 48	JAN 04, 1975	
2,198	690,361	18 49	JAN 04, 1975	
2,215	690,805	18 50	JAN 04, 1975	
2,231	691,058	18 51	JAN 04, 1975	
2,248	691,543	18 52	JAN 04, 1975	
2,264	691,724	18 53	JAN 04, 1975	
2,280	692,041	18 54	JAN 04, 1975	
2,297	692,358	18 55	JAN 04, 1975	
2,313	692,674	18 56	JAN 04, 1975	
2,330	692,991	18 57	JAN 04, 1975	
2,346	693,372	18 58	JAN 04, 1975	
2,362	693,720	18 59	JAN 04, 1975	
2,379	694,037	19 00	JAN 04, 1975	
2,395	694,322	19 01	JAN 04, 1975	
2,412	694,703	19 02	JAN 04, 1975	
2,428	695,083	19 03	JAN 04, 1975	
2,444	695,241	19 04	JAN 04, 1975	
2,461	695,558	19 05	JAN 04, 1975	
2,477	695,812	19 06	JAN 04, 1975	
2,494	696,065	19 07	JAN 04, 1975	
2,510	696,351	19 08	JAN 04, 1975	
2,527	696,572	19 09	JAN 04, 1975	
2,543	696,921	19 10	JAN 04, 1975	
2,559	697,175	19 11	JAN 04, 1975	
2,576	697,396	19 12	JAN 04, 1975	
2,592	697,713	19 13	JAN 04, 1975	
2,609	698,442	19 14	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
214 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,625	699,266	19 14	JAN 04, 1975	
2,641	699,742	19 15	JAN 04, 1975	
2,658	700,470	19 16	JAN 04, 1975	
2,674	700,914	19 17	JAN 04, 1975	
2,691	701,453	19 18	JAN 04, 1975	
2,707	702,118	19 19	JAN 04, 1975	
2,723	703,259	19 20	JAN 04, 1975	
2,740	706,397	19 21	JAN 04, 1975	
2,756	703,101	19 22	JAN 04, 1975	
2,773	703,576	19 23	JAN 04, 1975	
2,789	703,956	19 24	JAN 04, 1975	
2,805	704,305	19 25	JAN 04, 1975	
2,822	704,717	19 26	JAN 04, 1975	
2,838	705,224	19 27	JAN 04, 1975	
2,855	705,636	19 28	JAN 04, 1975	
2,871	705,921	19 29	JAN 04, 1975	
2,887	706,302	19 30	JAN 04, 1975	
2,904	706,650	19 31	JAN 04, 1975	
2,920	706,587	19 32	JAN 04, 1975	
2,937	706,935	19 33	JAN 04, 1975	
2,953	707,189	19 34	JAN 04, 1975	
2,969	713,781	19 35	JAN 04, 1975	
2,986	707,791	19 36	JAN 04, 1975	
3,002	707,886	19 37	JAN 04, 1975	
3,019	707,886	19 38	JAN 04, 1975	
3,035	708,298	19 39	JAN 04, 1975	
3,052	708,615	19 40	JAN 04, 1975	
3,068	708,773	19 41	JAN 04, 1975	
3,084	709,851	19 42	JAN 04, 1975	
3,101	706,270	19 43	JAN 04, 1975	
3,117	707,854	19 44	JAN 04, 1975	
3,134	710,073	19 45	JAN 04, 1975	
3,150	710,168	19 46	JAN 04, 1975	
3,166	710,390	19 47	JAN 04, 1975	
3,183	710,802	19 48	JAN 04, 1975	
3,199	710,897	19 49	JAN 04, 1975	
3,216	710,865	19 50	JAN 04, 1975	
3,232	711,119	19 51	JAN 04, 1975	
3,248	711,372	19 52	JAN 04, 1975	
3,265	712,323	19 53	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,281	717,488	19 54	JAN 04, 1975	
3,298	716,443	19 55	JAN 04, 1975	
3,314	715,619	19 56	JAN 04, 1975	
3,330	721,640	19 57	JAN 04, 1975	
3,347	737,422	19 58	JAN 04, 1975	
3,363	748,229	19 59	JAN 04, 1975	
3,380	742,809	20 00	JAN 04, 1975	START JETTING
3,396	741,383	20 01	JAN 04, 1975	AT 8 GPM
3,412	710,707	20 02	JAN 04, 1975	
3,429	694,544	20 03	JAN 04, 1975	
3,445	673,787	20 04	JAN 04, 1975	
3,462	666,910	20 05	JAN 04, 1975	
3,478	663,075	20 06	JAN 04, 1975	
3,494	660,572	20 07	JAN 04, 1975	
3,511	656,227	20 08	JAN 04, 1975	
3,527	656,167	20 09	JAN 04, 1975	
3,544	654,677	20 10	JAN 04, 1975	
3,560	653,346	20 11	JAN 04, 1975	
3,577	652,459	20 12	JAN 04, 1975	
3,593	651,508	20 13	JAN 04, 1975	
3,609	650,684	20 14	JAN 04, 1975	
3,626	649,955	20 15	JAN 04, 1975	
3,642	649,290	20 16	JAN 04, 1975	
3,659	648,656	20 17	JAN 04, 1975	
3,675	647,578	20 17	JAN 04, 1975	
3,691	646,913	20 18	JAN 04, 1975	
3,708	646,184	20 19	JAN 04, 1975	
3,724	645,487	20 20	JAN 04, 1975	
3,741	644,790	20 21	JAN 04, 1975	
3,757	644,029	20 22	JAN 04, 1975	
3,773	643,047	20 23	JAN 04, 1975	
3,790	642,096	20 24	JAN 04, 1975	
3,806	640,828	20 25	JAN 04, 1975	
3,823	640,828	20 26	JAN 04, 1975	
3,839	642,635	20 27	JAN 04, 1975	
3,855	643,300	20 28	JAN 04, 1975	
3,872	644,124	20 29	JAN 04, 1975	
3,888	644,251	20 30	JAN 04, 1975	
3,905	643,997	20 31	JAN 04, 1975	
3,921	643,617	20 32	JAN 04, 1975	





JOB NUMBER  
SPG-11210-CG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
214 DBT-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3.937	643,142	20 33	JAN 04, 1975	
3.954	642,952	20 34	JAN 04, 1975	
3.970	642,920	20 35	JAN 04, 1975	
3.987	642,698	20 36	JAN 04, 1975	
4.003	642,508	20 37	JAN 04, 1975	
4.019	642,508	20 38	JAN 04, 1975	
4.036	642,476	20 39	JAN 04, 1975	
4.052	642,381	20 40	JAN 04, 1975	
4.069	642,508	20 41	JAN 04, 1975	
4.085	639,941	20 42	JAN 04, 1975	
4.101	639,085	20 43	JAN 04, 1975	
4.118	640,385	20 44	JAN 04, 1975	
4.134	640,670	20 45	JAN 04, 1975	
4.151	641,082	20 46	JAN 04, 1975	
4.167	641,177	20 47	JAN 04, 1975	
4.184	641,621	20 48	JAN 04, 1975	
4.200	641,874	20 49	JAN 04, 1975	
4.216	641,747	20 50	JAN 04, 1975	
4.233	641,589	20 51	JAN 04, 1975	
4.249	641,621	20 52	JAN 04, 1975	
4.266	641,747	20 53	JAN 04, 1975	
4.282	641,589	20 54	JAN 04, 1975	
4.298	641,557	20 55	JAN 04, 1975	
4.315	641,621	20 56	JAN 04, 1975	
4.331	641,716	20 57	JAN 04, 1975	
4.348	641,937	20 58	JAN 04, 1975	
4.364	634,078	20 59	JAN 04, 1975	
4.380	633,508	21 00	JAN 04, 1975	END JETTING.
4.397	644,346	21 01	JAN 04, 1975	
4.413	653,441	21 02	JAN 04, 1975	
4.430	662,600	21 03	JAN 04, 1975	
4.446	671,251	21 04	JAN 04, 1975	
4.462	679,491	21 05	JAN 04, 1975	
4.479	694,671	21 06	JAN 04, 1975	
4.495	701,294	21 07	JAN 04, 1975	
4.512	707,981	21 08	JAN 04, 1975	
4.528	714,256	21 09	JAN 04, 1975	
4.544	719,992	21 10	JAN 04, 1975	
4.561	725,538	21 11	JAN 04, 1975	
4.577	730,799	21 12	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
4.594	735,996	21 13	JAN 04, 1975	
4.610	738,309	21 14	JAN 04, 1975	
4.758	746,137	21 22	JAN 04, 1975	
4.774	750,510	21 23	JAN 04, 1975	
4.791	752,158	21 24	JAN 04, 1975	
4.807	755,517	21 25	JAN 04, 1975	
4.823	760,113	21 26	JAN 04, 1975	
4.840	763,979	21 27	JAN 04, 1975	
4.856	765,342	21 28	JAN 04, 1975	
4.873	771,046	21 29	JAN 04, 1975	
4.889	774,976	21 30	JAN 04, 1975	
4.905	778,747	21 31	JAN 04, 1975	
4.922	782,264	21 32	JAN 04, 1975	
4.938	785,814	21 33	JAN 04, 1975	
4.955	789,173	21 34	JAN 04, 1975	
4.971	792,310	21 35	JAN 04, 1975	
4.987	795,384	21 36	JAN 04, 1975	
5.004	798,332	21 37	JAN 04, 1975	
5.020	800,962	21 38	JAN 04, 1975	
5.037	803,624	21 39	JAN 04, 1975	
5.053	805,240	21 40	JAN 04, 1975	
5.069	807,902	21 41	JAN 04, 1975	
5.086	809,804	21 42	JAN 04, 1975	
5.102	811,515	21 43	JAN 04, 1975	
5.119	813,226	21 44	JAN 04, 1975	
5.135	815,001	21 45	JAN 04, 1975	
5.151	815,952	21 46	JAN 04, 1975	
5.168	817,568	21 47	JAN 04, 1975	
5.184	820,008	21 48	JAN 04, 1975	
5.201	821,276	21 49	JAN 04, 1975	
5.217	821,878	21 50	JAN 04, 1975	
5.234	823,779	21 51	JAN 04, 1975	
5.250	824,920	21 52	JAN 04, 1975	
5.266	826,188	21 53	JAN 04, 1975	
5.283	827,361	21 54	JAN 04, 1975	
5.299	829,008	21 55	JAN 04, 1975	
5.316	830,371	21 56	JAN 04, 1975	
5.332	831,575	21 57	JAN 04, 1975	
5.348	833,192	21 58	JAN 04, 1975	
5.365	834,142	21 59	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
5,381	835,220	22 00	JAN 04, 1975	
5,398	835,885	22 01	JAN 04, 1975	
5,414	836,963	22 02	JAN 04, 1975	
5,430	838,262	22 03	JAN 04, 1975	
5,447	839,150	22 04	JAN 04, 1975	
5,463	839,498	22 05	JAN 04, 1975	
5,480	840,893	22 06	JAN 04, 1975	
5,496	841,780	22 07	JAN 04, 1975	
5,512	842,572	22 08	JAN 04, 1975	
5,529	843,364	22 09	JAN 04, 1975	
5,545	844,062	22 10	JAN 04, 1975	
5,562	844,727	22 11	JAN 04, 1975	
5,578	845,424	22 12	JAN 04, 1975	
5,594	845,995	22 13	JAN 04, 1975	
5,611	846,692	22 14	JAN 04, 1975	
5,627	847,294	22 15	JAN 04, 1975	
5,644	847,928	22 16	JAN 04, 1975	
5,660	848,562	22 17	JAN 04, 1975	
5,676	849,005	22 18	JAN 04, 1975	
5,693	849,671	22 19	JAN 04, 1975	
5,709	850,305	22 20	JAN 04, 1975	DOWN ANNULUS
5,726	850,780	22 21	JAN 04, 1975	WITH 60 GPM
5,742	851,287	22 22	JAN 04, 1975	
5,759	851,604	22 23	JAN 04, 1975	
5,775	852,238	22 23	JAN 04, 1975	
5,791	852,682	22 24	JAN 04, 1975	
5,808	853,093	22 25	JAN 04, 1975	
5,824	853,601	22 26	JAN 04, 1975	
5,841	854,076	22 27	JAN 04, 1975	
5,857	854,425	22 28	JAN 04, 1975	
5,873	854,773	22 29	JAN 04, 1975	
5,890	855,280	22 30	JAN 04, 1975	
5,906	855,629	22 31	JAN 04, 1975	
5,923	856,072	22 32	JAN 04, 1975	
5,939	856,484	22 33	JAN 04, 1975	
5,955	856,801	22 34	JAN 04, 1975	
5,972	857,182	22 35	JAN 04, 1975	
5,988	857,499	22 36	JAN 04, 1975	
6,005	857,879	22 37	JAN 04, 1975	
6,021	858,227	22 38	JAN 04, 1975	





JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,037	858,449	22 39	JAN 04, 1975	
6,054	858,893	22 40	JAN 04, 1975	
6,070	859,273	22 41	JAN 04, 1975	
6,087	859,622	22 42	JAN 04, 1975	
6,103	859,844	22 43	JAN 04, 1975	
6,119	860,256	22 44	JAN 04, 1975	
6,136	860,573	22 45	JAN 04, 1975	
6,152	860,889	22 46	JAN 04, 1975	
6,169	861,048	22 47	JAN 04, 1975	
6,185	861,492	22 48	JAN 04, 1975	
6,201	861,777	22 49	JAN 04, 1975	
6,218	862,062	22 50	JAN 04, 1975	
6,234	862,316	22 51	JAN 04, 1975	
6,251	862,696	22 52	JAN 04, 1975	
6,267	862,981	22 53	JAN 04, 1975	
6,283	863,203	22 54	JAN 04, 1975	
6,300	863,425	22 55	JAN 04, 1975	
6,316	863,710	22 56	JAN 04, 1975	
6,333	864,027	22 57	JAN 04, 1975	
6,349	864,185	22 58	JAN 04, 1975	
6,366	864,375	22 59	JAN 04, 1975	
6,382	864,692	23 00	JAN 04, 1975	
6,398	864,978	23 01	JAN 04, 1975	
6,415	865,199	23 02	JAN 04, 1975	
6,431	865,390	23 03	JAN 04, 1975	
6,448	865,643	23 04	JAN 04, 1975	
6,464	865,928	23 05	JAN 04, 1975	
6,480	866,150	23 06	JAN 04, 1975	
6,497	866,309	23 07	JAN 04, 1975	
6,513	866,625	23 08	JAN 04, 1975	
6,530	866,879	23 09	JAN 04, 1975	
6,546	867,069	23 10	JAN 04, 1975	
6,562	867,259	23 11	JAN 04, 1975	
6,579	867,481	23 12	JAN 04, 1975	
6,595	867,766	23 13	JAN 04, 1975	
6,612	867,956	23 14	JAN 04, 1975	
6,628	868,115	23 15	JAN 04, 1975	
6,644	868,400	23 16	JAN 04, 1975	
6,661	868,590	23 17	JAN 04, 1975	
6,677	868,780	23 18	JAN 04, 1975	



JOB NUMBER  
BPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
6,694	868,971	23 19	JAN 04, 1975	
6,710	869,224	23 20	JAN 04, 1975	START DECLINE
6,726	869,383	23 21	JAN 04, 1975	OF INJECTION
6,743	869,478	23 22	JAN 04, 1975	IN ANNULUS
6,759	869,795	23 23	JAN 04, 1975	
6,776	869,985	23 24	JAN 04, 1975	
6,792	870,175	23 25	JAN 04, 1975	
6,808	870,270	23 26	JAN 04, 1975	
6,825	870,492	23 26	JAN 04, 1975	
6,841	870,777	23 27	JAN 04, 1975	
6,858	870,967	23 28	JAN 04, 1975	
6,874	871,126	23 29	JAN 04, 1975	
6,891	871,316	23 30	JAN 04, 1975	
6,907	871,474	23 31	JAN 04, 1975	
6,923	871,569	23 32	JAN 04, 1975	
6,940	871,823	23 33	JAN 04, 1975	
6,956	872,013	23 34	JAN 04, 1975	
6,973	872,266	23 35	JAN 04, 1975	
6,989	872,362	23 36	JAN 04, 1975	
7,005	872,552	23 37	JAN 04, 1975	
7,022	872,678	23 38	JAN 04, 1975	
7,038	872,869	23 39	JAN 04, 1975	
7,055	873,027	23 40	JAN 04, 1975	END DECLINE
7,071	873,185	23 41	JAN 04, 1975	
7,087	873,376	23 42	JAN 04, 1975	
7,104	873,566	23 43	JAN 04, 1975	
7,120	873,724	23 44	JAN 04, 1975	
7,137	873,851	23 45	JAN 04, 1975	DOWN DRILL
7,153	874,009	23 46	JAN 04, 1975	PIPE WITH 2GPM
7,169	874,200	23 47	JAN 04, 1975	
7,186	874,428	23 48	JAN 04, 1975	
7,202	875,594	23 49	JAN 04, 1975	
7,219	876,640	23 50	JAN 04, 1975	
7,235	877,400	23 51	JAN 04, 1975	
7,251	878,129	23 52	JAN 04, 1975	
7,268	878,478	23 53	JAN 04, 1975	
7,284	879,397	23 54	JAN 04, 1975	
7,301	879,502	23 55	JAN 04, 1975	
7,317	879,143	23 56	JAN 04, 1975	
7,333	878,826	23 57	JAN 04, 1975	



JOB NUMBER  
SPG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
7,350	878,858	23 58	JAN 04,1975	
7,366	878,858	23 59	JAN 04,1975	
7,383	878,858	00 00	JAN 05,1975	
7,399	878,795	00 01	JAN 05,1975	
7,416	878,922	00 02	JAN 05,1975	
7,432	878,985	00 03	JAN 05,1975	
7,448	878,890	00 04	JAN 05,1975	
7,465	878,826	00 05	JAN 05,1975	DOWN DP WITH
7,481	878,985	00 06	JAN 05,1975	5 GPM
7,498	879,080	00 07	JAN 05,1975	
7,514	879,207	00 08	JAN 05,1975	OVERFLOW START
7,530	880,538	00 09	JAN 05,1975	AT 3.5 GPM
7,547	892,865	00 10	JAN 05,1975	
7,563	892,739	00 11	JAN 05,1975	
7,580	892,834	00 12	JAN 05,1975	
7,596	892,422	00 13	JAN 05,1975	
7,612	892,707	00 14	JAN 05,1975	
7,629	892,707	00 15	JAN 05,1975	
7,645	892,168	00 16	JAN 05,1975	
7,662	892,263	00 17	JAN 05,1975	
7,678	892,612	00 18	JAN 05,1975	
7,694	892,549	00 19	JAN 05,1975	
7,711	892,485	00 20	JAN 05,1975	
7,727	892,454	00 21	JAN 05,1975	
7,744	892,295	00 22	JAN 05,1975	
7,760	892,263	00 23	JAN 05,1975	
7,776	892,232	00 24	JAN 05,1975	
7,793	892,168	00 25	JAN 05,1975	START DECLINE
7,809	891,154	00 26	JAN 05,1975	
7,826	890,774	00 27	JAN 05,1975	
7,842	890,203	00 28	JAN 05,1975	
7,858	889,538	00 29	JAN 05,1975	
7,875	888,904	00 29	JAN 05,1975	
7,891	888,619	00 30	JAN 05,1975	
7,908	887,732	00 31	JAN 05,1975	
7,924	887,383	00 32	JAN 05,1975	
7,941	887,193	00 33	JAN 05,1975	
7,957	887,003	00 34	JAN 05,1975	
7,973	886,813	00 35	JAN 05,1975	
7,990	886,717	00 36	JAN 05,1975	





JOB NUMBER  
8PG-11210-GG

DATE OF JOB  
JANUARY 04, 1975

GAUGE/RUN NUMBER  
219 DST-34 FINAL FLCH

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
8,006	886,622	00 37	JAN 05,1975	
8,023	886,527	00 38	JAN 05,1975	
8,039	886,527	00 39	JAN 05,1975	
8,055	886,401	00 40	JAN 05,1975	
8,072	886,401	00 41	JAN 05,1975	
8,088	886,337	00 42	JAN 05,1975	
8,105	886,401	00 43	JAN 05,1975	
8,121	886,337	00 44	JAN 05,1975	
8,137	886,305	00 45	JAN 05,1975	
8,154	886,147	00 46	JAN 05,1975	
8,170	886,179	00 47	JAN 05,1975	
8,187	886,305	00 48	JAN 05,1975	
8,203	886,242	00 49	JAN 05,1975	
8,219	886,242	00 50	JAN 05,1975	
8,236	886,337	00 51	JAN 05,1975	
8,252	886,401	00 52	JAN 05,1975	
8,269	886,464	00 53	JAN 05,1975	
8,285	886,432	00 54	JAN 05,1975	
8,301	886,432	00 55	JAN 05,1975	START DECLINE
8,318	886,464	00 56	JAN 05,1975	
8,334	886,464	00 57	JAN 05,1975	
8,351	886,527	00 58	JAN 05,1975	
8,367	886,749	00 59	JAN 05,1975	
8,383	886,781	01 00	JAN 05,1975	
8,400	886,876	01 01	JAN 05,1975	END TEST

II B-1503

505 POINTS REPORTED THIS RUN



JOHNSTON

Schlumberger

technical  
report

II B-1504

F.R. #09087 C









<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4633 N PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4097 N PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC OPENED TOOL	1	-		746.0	755.3
	2	2012	0	131.0	130.3
			2	131.0	134.6
CLOSED FOR INITIAL SHUT-IN	3	2015	3	131.0	136.0
			4	186.1	192.3
			6	190.0	195.1
			8	192.7	196.5
			10	195.3	199.3
			12	197.9	200.7
			14	199.2	203.5
			16	201.8	204.9
			18	203.1	206.3
			20	205.8	209.2
			22	207.1	210.6
			24	209.7	213.4
			26	211.0	214.8
			28	213.6	217.6
			30	214.9	219.0
INITIAL SHUT-IN - CYCLED TOOL	4	2045	32	217.6	221.8
			33	217.6	221.8
			34	214.9	219.0
TOOL RE-OPENED - INITIAL FLOW	5	2047	35	188.7	200.7
			36	197.9	202.1
			38	200.5	203.5
			40	201.8	203.5
			42	203.1	206.3
			44	204.5	206.3
			46	205.8	207.6
			48	205.8	207.6
			50	207.1	209.2
			52	208.4	209.2
			54	208.4	210.6
			56	208.4	212.0
			58	209.7	212.0
			60	209.7	213.4
			62	211.0	213.4
			64	211.0	214.8
			66	211.0	214.8
			68	212.3	214.8
			70	212.3	216.2
			72	213.6	216.2
			74	213.6	217.6
			76	214.9	217.0
			78	214.9	219.0
			80	216.3	219.0
			82	217.6	220.4
			84	217.6	220.4
			86	217.6	220.4
			88	217.6	221.8
			90	218.9	221.8
			92	218.9	223.2
			94	220.2	223.2



## FIELD REPORT #09087 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			96	220.2	223.2
			98	220.2	223.2
			100	221.5	224.6
			102	221.5	226.1
			104	222.8	226.1
			106	222.8	226.1
			108	224.1	227.5
			110	224.1	227.5
			112	225.4	228.9
			114	225.4	228.9
			116	226.7	230.3
			118	226.7	230.3
			120	226.7	231.7
			122	228.1	231.7
			124	229.4	233.1
			126	229.4	233.1
			128	230.7	233.1
			130	230.7	234.5
			132	230.7	234.5
			134	230.7	234.5
			136	232.0	235.9
			138	232.0	237.3
			140	233.3	237.3
			142	233.3	238.7
			144	233.3	238.7
			146	234.6	238.7
			148	234.6	240.1
			150	235.9	240.1
			152	235.9	240.1
			154	235.9	241.5
			156	237.2	241.5
			158	237.2	242.9
			160	238.5	242.9
			162	238.5	242.9
			164	238.5	244.4
			166	239.9	244.4
FINAL FLOW - CLOSED TOOL,					
PULLED PACKER LOOSE	6	2300	168	239.9	244.4
FINAL HYDROSTATIC	7	-	-	742.1	756.1

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):	2650#	2650#
DEPTH:	2195'	2221'
INSTRUMENT OPENING:	INSIDE	OUTSIDE





FIELD REPORT NO.

09087 C

CAPACITY

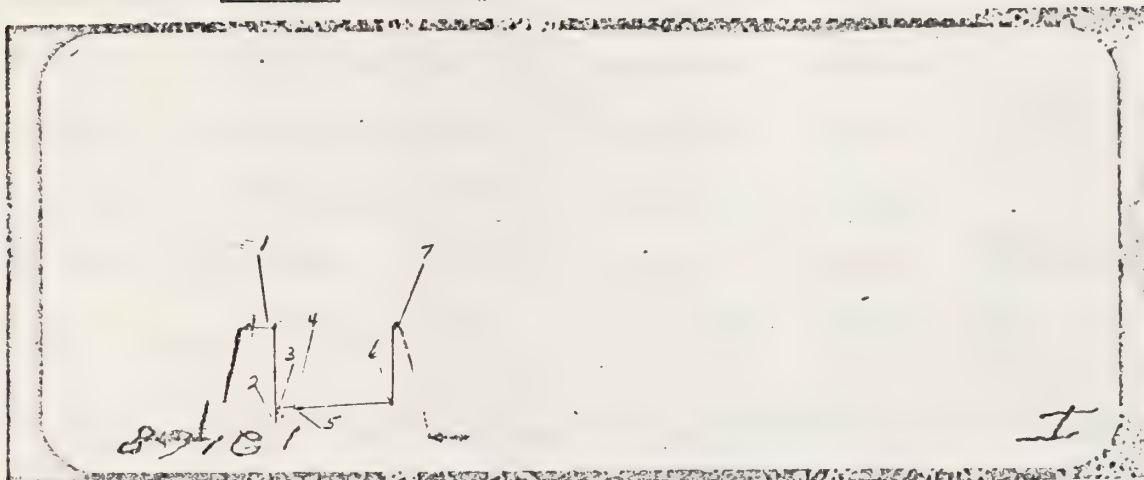
2650#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09087 C

CAPACITY

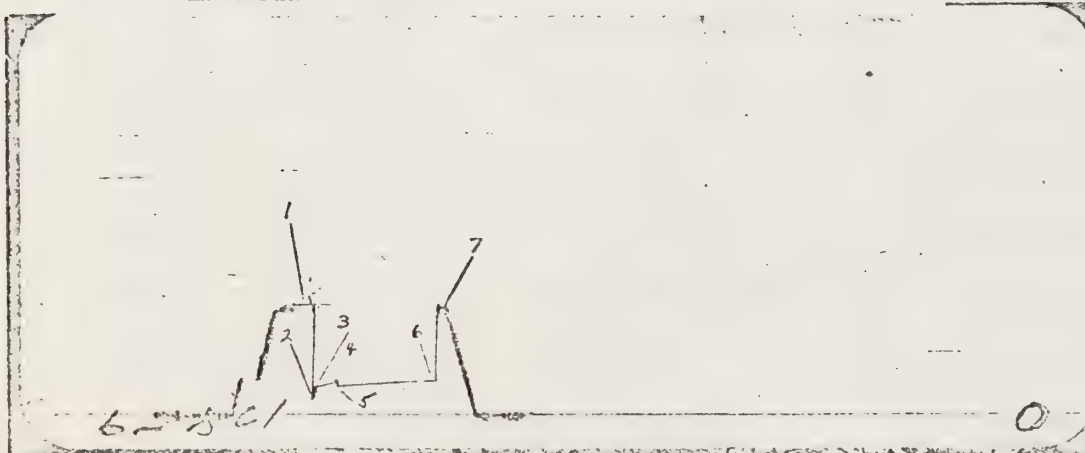
2800#

RECORDER NO.

4097 N

REPORTS REQUESTED

14+







## PRESSURE GAUGE DRILL STEM TEST SHEET

DST#35

Job No. SPG-11210HH Date 1/16/75 Run #1 Office CARPER  
 Customer ARCO Et AL Location Sanghorn Gulch  
 State Colorado County/Front Rio BLANCO  
 Well Sanghorn Gulch No. 17 Field TRACT C6

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/ <del>1004</del>	1. <u>1615 hrs</u>	<u>1/16/75</u>	2. _____	_____	_____
Depart: Well/ <del>1004</del>	1. <u>0130 hrs</u>	<u>1/17/75</u>	2. _____	_____	<u>0915</u> hrs.
Gauge Start in Hole	1. <u>No 56 hrs</u>	<u>1/16/75</u>	2. _____	_____	_____
Gauge Out of Hole	1. <u>0105 hrs</u>	<u>1/17/75</u>	2. _____	_____	<u>8 hrs 9 min</u> hrs.
No. Trips	<u>1</u>	Miles	<u>90</u>	Total Mileage	<u>90</u>
-----					
Top Gauge #	<u>143</u>	Element #	<u>30949</u>	Range	<u>1000 lbs</u> Time Mode <u>LOIN</u>
Btm. Gauge #	<u>219</u>	Element #	<u>35788</u>	Range	<u>1400 lbs</u> Time Mode <u>LOIN</u>
Type Tool	<u>—</u>	Test Depth	<u>2220'-2270'</u>	Zero Point	<u>GROUND LEVEL</u>
Packer Depth	<u>2220'</u>	Tail Pipe Depth	<u>2270'</u>	Top Gauge Depth	<u>2168'</u>
Bottom Hole Temp.	<u>—</u>	Atmos. Temp.	<u>—</u>	Bottom Gauge Depth	<u>2230</u>

## TIME INFORMATION

Time Date

## PRESSURE INFORMATION

(On Data Sheet)

On Bottom	<u>1250</u>	<u>1/16/75</u>	Initial Hydrostatic Mud	_____
Packer Set	<u>2010</u>	<u>1/16/75</u>	Initial Draw Down	_____
Initial Open	<u>2012</u>	<u>1/16/75</u>	Initial Build-Up	_____
Initial Shut-In	<u>2014</u>	<u>1/16/75</u>	Final Flow	_____
Start Flow	<u>2045</u>	<u>1/16/75</u>	Final Build-Up	_____
Final Shut-In	<u>2300</u>	<u>1/16/75</u>	Final Hydrostatic Mud	_____
Packer Unseated	<u>2303</u>	<u>1/16/75</u>	Mud Weight	_____

## TIME OF SURFACE NULLS

Top Gauge 1656 1657 1658 Bottom Gauge 1732 1733 1734

Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT CB  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 143 WITH 1000 LB. ELEMENT  
GAUGE DEPTH IS 2168FT. OUTSIDE DRILL PIPE  
GAUGE ABOVE PACKER SET AT 2220 FEET  
GROUND LEVEL REFERENCE IS 7036 FEET  
INITIAL HYDROSTATIC WAS 734.41 PSI  
FINAL HYDROSTATIC WAS 735.70 PSI  
TEST INTERVAL IS FROM SURFACE TO 2220  
FEET (PACKER DEPTH)

IT B-1510

168 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

GAUGE/RUN NUMBER  
143 RUN=1 INIT. OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	742,125	20 12	JAN 06, 1975	INITIAL OPEN
,017	742,101	20 13	JAN 06, 1975	
,033	742,220	20 14	JAN 06, 1975	END OPEN

II B-1511

3 POINTS REPORTED THIS RUN





JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

GAUGE/RUN NUMBER  
143 RUN=1 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	742.220	20 14	JAN 06, 1975	INITIAL CLOSE
.017	741.651	20 15	JAN 06, 1975	
.033	741.745	20 16	JAN 06, 1975	
.050	741.745	20 17	JAN 06, 1975	
.067	741.769	20 18	JAN 06, 1975	
.083	741.793	20 19	JAN 06, 1975	
.100	741.840	20 20	JAN 06, 1975	
.117	741.840	20 21	JAN 06, 1975	
.133	741.864	20 22	JAN 06, 1975	
.150	741.912	20 23	JAN 06, 1975	
.167	741.935	20 24	JAN 06, 1975	
.183	741.959	20 25	JAN 06, 1975	
.200	742.030	20 26	JAN 06, 1975	
.217	742.030	20 27	JAN 06, 1975	
.233	742.101	20 28	JAN 06, 1975	
.250	742.101	20 29	JAN 06, 1975	
.267	742.149	20 30	JAN 06, 1975	
.283	742.149	20 31	JAN 06, 1975	
.300	742.220	20 32	JAN 06, 1975	
.317	742.244	20 33	JAN 06, 1975	
.333	742.291	20 34	JAN 06, 1975	
.350	742.267	20 35	JAN 06, 1975	
.367	742.315	20 36	JAN 06, 1975	
.383	742.315	20 37	JAN 06, 1975	
.400	742.339	20 38	JAN 06, 1975	
.417	742.362	20 39	JAN 06, 1975	
.433	742.433	20 40	JAN 06, 1975	
.450	742.410	20 41	JAN 06, 1975	
.467	742.433	20 42	JAN 06, 1975	
.483	742.457	20 43	JAN 06, 1975	
.500	742.623	20 44	JAN 06, 1975	
.517	742.623	20 45	JAN 06, 1975	END SHUT IN

II B-1512

32 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

GAUGE/RUN NUMBER  
143 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	742.623	20 45	JAN 06, 1975	FINAL OPEN
.017	742.267	20 46	JAN 06, 1975	
.034	742.457	20 47	JAN 06, 1975	
.051	742.718	20 48	JAN 06, 1975	
.068	742.694	20 49	JAN 06, 1975	
.085	742.789	20 50	JAN 06, 1975	
.102	742.766	20 51	JAN 06, 1975	
.119	742.813	20 52	JAN 06, 1975	
.136	742.837	20 53	JAN 06, 1975	
.153	742.837	20 54	JAN 06, 1975	
.170	742.860	20 55	JAN 06, 1975	
.187	742.908	20 56	JAN 06, 1975	
.205	742.932	20 57	JAN 06, 1975	
.222	742.932	20 58	JAN 06, 1975	
.239	742.979	20 59	JAN 06, 1975	
.256	743.003	21 00	JAN 06, 1975	
.273	742.979	21 01	JAN 06, 1975	
.290	743.027	21 02	JAN 06, 1975	
.307	743.027	21 03	JAN 06, 1975	
.324	743.050	21 04	JAN 06, 1975	
.341	743.121	21 05	JAN 06, 1975	
.358	743.145	21 06	JAN 06, 1975	
.375	743.145	21 07	JAN 06, 1975	
.392	743.193	21 09	JAN 06, 1975	
.409	743.240	21 10	JAN 06, 1975	
.426	743.240	21 11	JAN 06, 1975	
.443	743.264	21 12	JAN 06, 1975	
.460	743.264	21 13	JAN 06, 1975	
.477	743.287	21 14	JAN 06, 1975	
.494	743.264	21 15	JAN 06, 1975	
.511	743.287	21 16	JAN 06, 1975	
.528	743.287	21 17	JAN 06, 1975	
.545	743.406	21 18	JAN 06, 1975	
.562	743.406	21 19	JAN 06, 1975	
.580	743.382	21 20	JAN 06, 1975	
.597	743.406	21 21	JAN 06, 1975	
.614	743.406	21 22	JAN 06, 1975	
.631	743.430	21 23	JAN 06, 1975	
.648	743.477	21 24	JAN 06, 1975	
.665	743.691	21 25	JAN 06, 1975	



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

GAUGE/RUN NUMBER  
143 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.682	743,477	21 26	JAN 06, 1975	
.699	743,501	21 27	JAN 06, 1975	
.716	743,525	21 28	JAN 06, 1975	
.733	743,548	21 29	JAN 06, 1975	
.750	743,548	21 30	JAN 06, 1975	
.767	743,572	21 31	JAN 06, 1975	
.784	743,572	21 32	JAN 06, 1975	
.801	743,596	21 33	JAN 06, 1975	
.818	743,667	21 34	JAN 06, 1975	
.835	743,643	21 35	JAN 06, 1975	
.852	743,714	21 36	JAN 06, 1975	
.869	743,667	21 37	JAN 06, 1975	
.886	743,714	21 38	JAN 06, 1975	
.903	743,714	21 39	JAN 06, 1975	
.920	743,738	21 40	JAN 06, 1975	
.937	743,786	21 41	JAN 06, 1975	
.955	743,762	21 42	JAN 06, 1975	
.972	743,786	21 43	JAN 06, 1975	
.989	743,833	21 44	JAN 06, 1975	
1,006	743,833	21 45	JAN 06, 1975	
1,023	743,833	21 46	JAN 06, 1975	
1,040	743,857	21 47	JAN 06, 1975	
1,057	743,881	21 48	JAN 06, 1975	
1,074	743,904	21 49	JAN 06, 1975	
1,091	743,928	21 50	JAN 06, 1975	
1,108	743,904	21 51	JAN 06, 1975	
1,125	743,952	21 52	JAN 06, 1975	
1,142	743,952	21 54	JAN 06, 1975	
1,159	743,975	21 55	JAN 06, 1975	
1,176	743,999	21 56	JAN 06, 1975	
1,193	744,023	21 57	JAN 06, 1975	
1,210	743,975	21 58	JAN 06, 1975	
1,227	744,023	21 59	JAN 06, 1975	
1,244	744,023	22 00	JAN 06, 1975	
1,261	744,047	22 01	JAN 06, 1975	
1,278	744,118	22 02	JAN 06, 1975	
1,295	744,118	22 03	JAN 06, 1975	
1,312	744,118	22 04	JAN 06, 1975	
1,330	744,142	22 05	JAN 06, 1975	
1,347	744,142	22 06	JAN 06, 1975	





JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

GAUGE/RUN NUMBER  
143 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,364	744,165	22 07	JAN 06, 1975	
1,381	744,189	22 08	JAN 06, 1975	
1,398	744,213	22 09	JAN 06, 1975	
1,415	744,236	22 10	JAN 06, 1975	
1,432	744,236	22 11	JAN 06, 1975	
1,449	744,260	22 12	JAN 06, 1975	
1,466	744,260	22 13	JAN 06, 1975	
1,483	744,284	22 14	JAN 06, 1975	
1,500	744,308	22 15	JAN 06, 1975	
1,517	744,308	22 16	JAN 06, 1975	
1,534	744,355	22 17	JAN 06, 1975	
1,551	744,331	22 18	JAN 06, 1975	
1,568	744,355	22 19	JAN 06, 1975	
1,585	744,379	22 20	JAN 06, 1975	
1,602	744,379	22 21	JAN 06, 1975	
1,619	744,402	22 22	JAN 06, 1975	
1,636	744,426	22 23	JAN 06, 1975	
1,653	744,450	22 24	JAN 06, 1975	
1,670	744,450	22 25	JAN 06, 1975	
1,687	744,426	22 26	JAN 06, 1975	
1,704	744,474	22 27	JAN 06, 1975	
1,722	744,497	22 28	JAN 06, 1975	
1,739	744,474	22 29	JAN 06, 1975	
1,756	744,545	22 30	JAN 06, 1975	
1,773	744,545	22 31	JAN 06, 1975	
1,790	744,545	22 32	JAN 06, 1975	
1,807	744,545	22 33	JAN 06, 1975	
1,824	744,569	22 34	JAN 06, 1975	
1,841	744,592	22 35	JAN 06, 1975	
1,858	744,616	22 36	JAN 06, 1975	
1,875	744,592	22 37	JAN 06, 1975	
1,892	744,640	22 39	JAN 06, 1975	
1,909	744,640	22 40	JAN 06, 1975	
1,926	744,616	22 41	JAN 06, 1975	
1,943	744,663	22 42	JAN 06, 1975	
1,960	744,711	22 43	JAN 06, 1975	
1,977	744,711	22 44	JAN 06, 1975	
1,994	744,711	22 45	JAN 06, 1975	
2,011	744,758	22 46	JAN 06, 1975	
2,028	744,758	22 47	JAN 06, 1975	



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 1975

GAUGE/RUN NUMBER  
143 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,045	744,758	22 48	JAN 06, 1975	
2,062	744,782	22 49	JAN 06, 1975	
2,079	744,758	22 50	JAN 06, 1975	
2,097	744,806	22 51	JAN 06, 1975	
2,114	744,806	22 52	JAN 06, 1975	
2,131	744,782	22 53	JAN 06, 1975	
2,148	744,806	22 54	JAN 06, 1975	
2,165	744,877	22 55	JAN 06, 1975	
2,182	744,901	22 56	JAN 06, 1975	
2,199	744,901	22 57	JAN 06, 1975	
2,216	744,924	22 58	JAN 06, 1975	
2,233	744,901	22 59	JAN 06, 1975	
2,250	744,948	23 00	JAN 06, 1975	END TEST

133 POINTS REPORTED THIS RUN

PAGE 7

II B-1516



JOB NUMBER  
SPG-11210 HH

DATE OF JCB  
JANUARY 6, 197

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG6-17  
FIELD/LEASE      TRACT C-B SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 219 WITH 1400LB. ELEMENT  
GAUGE DEPTH IS 2230 FT. INSIDE DRILL PIPE  
GAUGE BELOW PACKER SET AT 2220 FEET  
GROUND LEVEL REFERENCE IS 7036 FEET  
INITIAL HYDROSTATIC IS 762.94 PSI  
FINAL HYDROSTITIC IS 764.43 PSI  
TEST INTERVAL IS FROM SURFACE TO  
2220 FEET (PACKER DEPTH)

170 POINTS REPORTED THIS JOB





JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 197

GAUGE/RUN NUMBER  
219 RUN=1 INITIAL OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	267,150	20 12	JAN 06,1975	INITIAL OPEN
,017	267,435	20 13	JAN 06,1975	
,033	268,384	20 14	JAN 06,1975	END OPEN

3 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 197

GAUGE/RUN NUMBER  
219 RUN=1 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	268,384	20 14	JAN 06,1975	INITIAL SHUTIN
,016	269,079	20 15	JAN 06,1975	
,032	265,347	20 16	JAN 06,1975	
,048	274,836	20 17	JAN 06,1975	
,065	278,884	20 18	JAN 06,1975	
,081	280,655	20 19	JAN 06,1975	
,097	282,205	20 20	JAN 06,1975	
,113	283,850	20 21	JAN 06,1975	
,129	285,336	20 22	JAN 06,1975	
,145	286,633	20 23	JAN 06,1975	
,161	287,962	20 24	JAN 06,1975	
,178	289,100	20 25	JAN 06,1975	
,194	290,239	20 26	JAN 06,1975	
,210	291,346	20 27	JAN 06,1975	
,226	292,421	20 28	JAN 06,1975	
,242	293,497	20 29	JAN 06,1975	
,258	294,604	20 30	JAN 06,1975	
,274	295,616	20 30	JAN 06,1975	
,291	296,533	20 31	JAN 06,1975	
,307	297,450	20 32	JAN 06,1975	
,323	298,462	20 33	JAN 06,1975	
,339	299,379	20 34	JAN 06,1975	
,355	300,392	20 35	JAN 06,1975	
,371	301,372	20 36	JAN 06,1975	
,388	302,353	20 37	JAN 06,1975	
,404	303,365	20 38	JAN 06,1975	
,420	304,408	20 39	JAN 06,1975	
,436	305,484	20 40	JAN 06,1975	
,452	306,527	20 41	JAN 06,1975	
,468	307,666	20 42	JAN 06,1975	
,484	308,676	20 43	JAN 06,1975	
,501	309,659	20 44	JAN 06,1975	
,517	310,702	20 45	JAN 06,1975	END SHUT IN

33 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 197

GAUGE/RUN NUMBER  
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	310,702	20 45	JAN 06,1975	FINAL OPEN
,017	308,931	20 46	JAN 06,1975	
,034	296,027	20 47	JAN 06,1975	
,051	294,445	20 48	JAN 06,1975	
,068	291,124	20 49	JAN 06,1975	
,085	291,915	20 50	JAN 06,1975	
,102	292,484	20 51	JAN 06,1975	
,118	292,769	20 52	JAN 06,1975	
,135	293,971	20 53	JAN 06,1975	
,152	294,857	20 54	JAN 06,1975	
,169	295,394	20 55	JAN 06,1975	
,186	295,900	20 56	JAN 06,1975	
,203	296,343	20 57	JAN 06,1975	
,220	296,786	20 58	JAN 06,1975	
,237	297,165	20 59	JAN 06,1975	
,254	297,545	21 00	JAN 06,1975	
,271	297,956	21 01	JAN 06,1975	
,288	298,336	21 02	JAN 06,1975	
,305	298,684	21 03	JAN 06,1975	
,321	299,158	21 04	JAN 06,1975	
,338	299,569	21 05	JAN 06,1975	
,355	299,917	21 06	JAN 06,1975	
,372	300,233	21 07	JAN 06,1975	
,389	300,581	21 08	JAN 06,1975	
,406	300,929	21 09	JAN 06,1975	
,423	301,246	21 10	JAN 06,1975	
,440	301,530	21 11	JAN 06,1975	
,457	301,846	21 12	JAN 06,1975	
,474	302,194	21 13	JAN 06,1975	
,491	302,511	21 14	JAN 06,1975	
,508	302,764	21 15	JAN 06,1975	
,524	303,112	21 16	JAN 06,1975	
,541	303,396	21 17	JAN 06,1975	
,558	303,681	21 18	JAN 06,1975	
,575	304,029	21 20	JAN 06,1975	
,592	304,345	21 21	JAN 06,1975	
,609	304,661	21 22	JAN 06,1975	
,626	305,009	21 23	JAN 06,1975	
,643	305,357	21 24	JAN 06,1975	
,660	305,674	21 25	JAN 06,1975	





JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 197

GAUGE/RUN NUMBER  
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.677	305.958	21 26	JAN 06,1975	
.694	306.243	21 27	JAN 06,1975	
.711	306.559	21 28	JAN 06,1975	
.727	306.844	21 29	JAN 06,1975	
.744	307.160	21 30	JAN 06,1975	
.761	307.445	21 31	JAN 06,1975	
.778	307.761	21 32	JAN 06,1975	
.795	308.077	21 33	JAN 06,1975	
.812	308.362	21 34	JAN 06,1975	
.829	308.678	21 35	JAN 06,1975	
.846	308.963	21 36	JAN 06,1975	
.863	309.311	21 37	JAN 06,1975	
.880	309.595	21 38	JAN 06,1975	
.897	309.912	21 39	JAN 06,1975	
.914	310.165	21 40	JAN 06,1975	
.930	310.449	21 41	JAN 06,1975	
.947	310.734	21 42	JAN 06,1975	
.964	311.019	21 43	JAN 06,1975	
.981	311.335	21 44	JAN 06,1975	
.998	311.620	21 45	JAN 06,1975	
1.015	311.904	21 46	JAN 06,1975	
1.032	312.221	21 47	JAN 06,1975	
1.049	312.505	21 48	JAN 06,1975	
1.066	312.822	21 49	JAN 06,1975	
1.083	313.169	21 50	JAN 06,1975	
1.100	313.422	21 51	JAN 06,1975	
1.117	313.770	21 52	JAN 06,1975	
1.133	314.087	21 53	JAN 06,1975	
1.150	314.371	21 54	JAN 06,1975	
1.167	314.719	21 55	JAN 06,1975	
1.184	315.036	21 56	JAN 06,1975	
1.201	315.352	21 57	JAN 06,1975	
1.218	315.668	21 58	JAN 06,1975	
1.235	315.984	21 59	JAN 06,1975	
1.252	316.301	22 00	JAN 06,1975	
1.269	316.649	22 01	JAN 06,1975	
1.286	316.965	22 02	JAN 06,1975	
1.303	317.250	22 03	JAN 06,1975	
1.320	317.566	22 04	JAN 06,1975	
1.336	317.914	22 05	JAN 06,1975	



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 197

GAUGE/RUN NUMBER  
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,353	318,230	22 06	JAN 06,1975	
1,370	318,546	22 07	JAN 06,1975	
1,387	318,863	22 08	JAN 06,1975	
1,404	319,147	22 09	JAN 06,1975	
1,421	319,495	22 10	JAN 06,1975	
1,438	319,811	22 11	JAN 06,1975	
1,455	320,128	22 12	JAN 06,1975	
1,472	320,412	22 13	JAN 06,1975	
1,489	320,760	22 14	JAN 06,1975	
1,506	321,077	22 15	JAN 06,1975	
1,523	321,424	22 16	JAN 06,1975	
1,539	321,709	22 17	JAN 06,1975	
1,556	322,057	22 18	JAN 06,1975	
1,573	322,278	22 19	JAN 06,1975	
1,590	322,563	22 20	JAN 06,1975	
1,607	322,879	22 21	JAN 06,1975	
1,624	323,132	22 22	JAN 06,1975	
1,641	323,449	22 23	JAN 06,1975	
1,658	323,733	22 24	JAN 06,1975	
1,675	323,986	22 25	JAN 06,1975	
1,692	324,303	22 27	JAN 06,1975	
1,709	324,556	22 28	JAN 06,1975	
1,726	324,809	22 29	JAN 06,1975	
1,742	325,062	22 30	JAN 06,1975	
1,759	325,378	22 31	JAN 06,1975	
1,776	325,631	22 32	JAN 06,1975	
1,793	325,884	22 33	JAN 06,1975	
1,810	326,169	22 34	JAN 06,1975	
1,827	326,422	22 35	JAN 06,1975	
1,844	326,738	22 36	JAN 06,1975	
1,861	327,054	22 37	JAN 06,1975	
1,878	327,339	22 38	JAN 06,1975	
1,895	327,560	22 39	JAN 06,1975	
1,912	327,940	22 40	JAN 06,1975	
1,929	328,098	22 41	JAN 06,1975	
1,945	328,414	22 42	JAN 06,1975	
1,962	328,667	22 43	JAN 06,1975	
1,979	328,984	22 44	JAN 06,1975	
1,996	329,268	22 45	JAN 06,1975	
2,013	329,490	22 46	JAN 06,1975	



JOB NUMBER  
SPG-11210 HH

DATE OF JOB  
JANUARY 6, 197

GAUGE/RUN NUMBER  
219 RUN=1 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,030	329,806	22 47	JAN 06,1975	
2,047	330,091	22 48	JAN 06,1975	
2,064	330,344	22 49	JAN 06,1975	
2,081	330,660	22 50	JAN 06,1975	
2,098	330,913	22 51	JAN 06,1975	
2,115	331,166	22 52	JAN 06,1975	
2,132	331,451	22 53	JAN 06,1975	
2,148	331,735	22 54	JAN 06,1975	
2,165	332,020	22 55	JAN 06,1975	
2,182	332,273	22 56	JAN 06,1975	
2,199	332,747	22 57	JAN 06,1975	
2,216	333,000	22 58	JAN 06,1975	
2,233	333,064	22 59	JAN 06,1975	
2,250	333,570	23 00	JAN 06,1975	END TEST

134 POINTS REPORTED THIS RUN





JOHNSTON

Shallow gas

technical  
report



## EQUIPMENT &amp; HOLE DATA

EQUIPMENT & HOLE DATA			
Type Test	M.F.E. OPEN HOLE		
Formation Tested	GREEN RIVER		
Elevation	7036		Ft.
Net Productive Interval	50		Ft.
Estimated Porosity	-		%
All Depths Measured From	GROUND LEVEL		
Total Depth	2370		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	297'	I.D.	-
Drill Pipe Length	1970'	I.D.	-
Packer Depth(s)	2316 & 2320		Ft.

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas \_\_\_\_\_

cc. Oil \_\_\_\_\_

cc. Water \_\_\_\_\_

cc. Mud \_\_\_\_\_

Tot. Liquid cc. \_\_\_\_\_

Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.

Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

### CHLORIDE CONTENT

Mud Pit Sample \_\_\_\_\_ @ \_\_\_\_\_ °F.  
Mud Pit Sample Filtrate \_\_\_\_\_ @ \_\_\_\_\_ °F. \_\_\_\_\_ ppm

Mud Type	WATER FOAM		Wt.	-	
Viscosity	-		Water Loss	-	C.C.
Resist: of Mud	-	@ - °F; of Filtrate	-	@ -	°F
Chloride Content	-				PPM

[illegible]

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company	ATLANTIC-RICHFIELD COMPANY	Field	SORGHUM GULCH
Well	FEDERAL S.G. #17	Location	436'FWL 181'FSL SEC.16-3S-96W
Test Interval	2320' TO 2370' II B-1525	Test #	36-A
		Date	1-8-75

County RIO BLANCO State COLORADO Field Report No. 09088 C  
Technician BURNS (VERNAL) Test Approved By MR. CHARLES BERGONZINI No. Reports Requested 14 (13x)



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-		782.7	793.3
OPENED TOOL	2	1435	0	70.7	61.4
			2	77.3	541.3
CLOSED FOR INITIAL SHUT-IN	3	1438	3	79.9	542.7
			4	161.2	689.1
			6	313.3	707.4
			8	477.2	715.9
			10	645.0	721.5
			12	681.7	724.3
			14	696.2	725.7
			16	705.3	727.1
			18	710.6	728.5
			20	714.5	728.5
			22	715.8	729.9
			24	717.1	729.9
			26	718.4	729.9
			28	719.8	729.9
			30	719.8	729.9
			32	719.8	729.9
			34	719.8	728.5
			36	719.8	728.5
			38	719.8	727.1
			40	719.8	727.1
			42	719.8	725.7
			44	718.4	725.7
INITIAL SHUT-IN - CYCLED TOOL	4	1520	45	718.4	725.7
			46	718.4	724.3
			48	722.4	724.3
TOOL RE-OPENED - INITIAL FLOW	5	1524	49	730.2	738.4
			50	730.2	739.8
			52	730.2	739.8
			54	730.2	739.8
			56	730.2	738.4
			58	730.2	738.4
			60	730.2	738.4
			62	730.2	738.4
			64	728.9	738.4
			66	728.9	738.4
			68	728.9	738.4
			70	728.9	737.0
			72	727.6	737.0
			74	727.6	737.0
			76	727.6	737.0
			78	727.6	735.6
			80	727.6	734.2
			82	726.3	734.2
			84	725.0	734.2
			86	725.0	734.2
			88	725.0	734.2
			90	725.0	734.2
			92	725.0	734.2
			94	725.0	734.2





## FIELD REPORT #09088 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			96	725.0	734.2
			98	725.0	734.2
			100	725.0	734.2
			102	725.0	734.2
			104	725.0	734.2
			106	725.0	734.2
			108	725.0	734.2
			110	723.7	734.2
			112	723.7	734.2
			114	723.7	734.2
			116	723.7	734.2
			118	723.7	734.2
			120	723.7	732.8
			122	723.7	732.8
			124	723.7	732.8
			126	723.7	732.8
			128	722.4	731.3
			130	722.4	731.3
			132	722.4	731.3
			134	722.4	731.3
			136	722.4	731.3
			138	722.4	731.3
			140	721.1	731.3
			142	721.1	731.3
			144	721.1	731.3
			146	721.1	729.9
			148	721.1	729.9
			150	721.1	729.9
			152	719.8	729.9
			154	719.8	729.9
			156	719.8	729.9
FINAL FLOW - CLOSED TOOL	6	1713	158	719.8	729.9
			160	803.7	813.0
			162	801.1	811.6
			164	799.7	810.2
			166	798.4	810.2
			168	798.4	808.8
			170	797.1	808.8
			172	797.1	807.4
			174	797.1	805.9
FINAL SHUT-IN - PULLED PACKER LOOSE	7	1731	176	795.8	805.9
FINAL HYDROSTATIC	8	-		790.6	797.5

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):  
DEPTH:  
INSTRUMENT OPENING:

2600#  
2295'  
INSIDE  
2800#  
2321'  
OUTSIDE





FIELD REPORT NO.

09088 C

CAPACITY

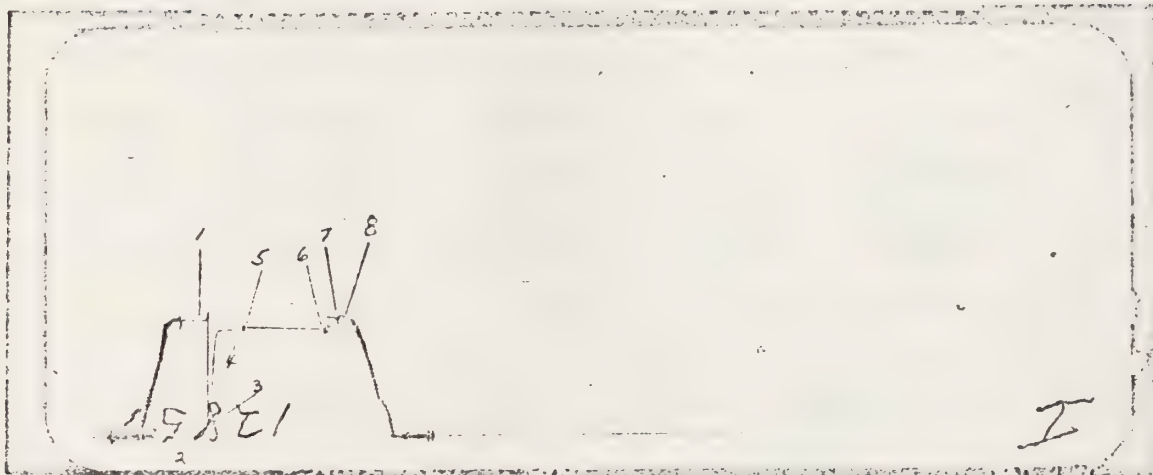
2600#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09088 C

CAPACITY

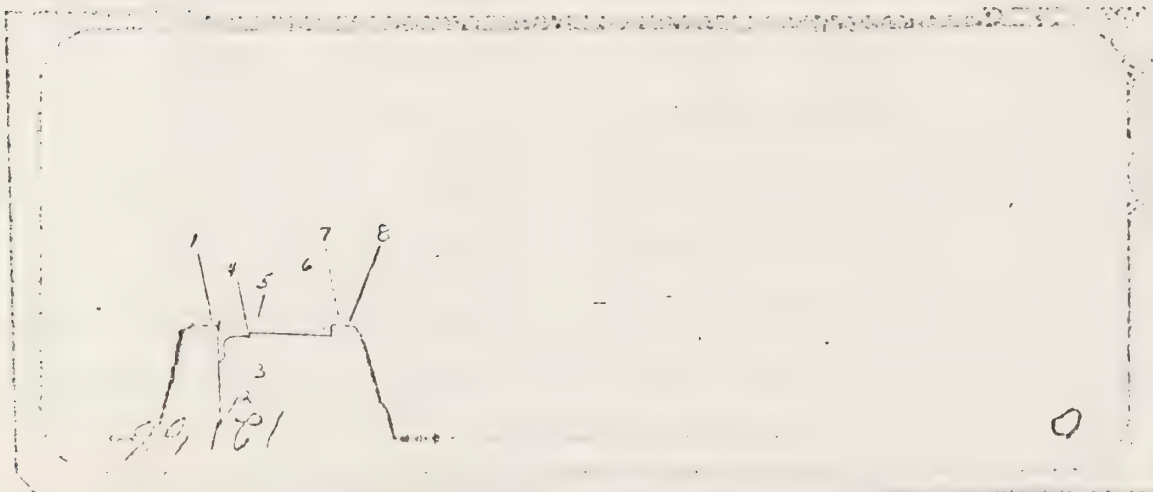
2800#

RECORDER NO.

4097 N

REPORTS REQUESTED

14+





## PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-11210 II Date JAN 8 1975 Run DST 36A Office CASPER  
 Customer Arco Et AL Location Sorghum Gulch  
 State Colo County/Parish Rio Blanca  
 Well Sorghum Gulch No. 17 Field Tract Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. <u>1100</u>	<u>1/8/75</u>	2. _____	_____	
Depart: Well/Dock	1. <u>0315</u>	<u>1/9/75</u>	2. _____	_____	<u>16 1/4</u> Hrs.
Gauge Start in Hole	1. <u>1205</u>	<u>1/8/75</u>	2. <u>1221</u>	<u>1/8/75</u>	
Gauge Out of Hole	1. <u>1956</u>	<u>1/8/75</u>	2. <u>1920</u>	<u>1/8/75</u>	<u>8</u> Hrs.
No. Trips	<u>1</u>	Miles	<u>90</u>	Total Mileage	<u>90</u>

-----  
 Top Gauge # 102 Element # 32764 Range 1000 Time Mode low  
 Btm. Gauge # 105 Element # 35993 Range 1400 Time Mode low  
 Type Tool DST Test Depth 2320 - 2370 Zero Point Ground level  
 Packer Depth 2320 Tail Pipe Depth 2268 Top Gauge Depth 2268  
 Bottom Hole Temp. \_\_\_\_\_ Atmos. Temp. \_\_\_\_\_ Bottom Gauge Depth 2330

## TIME INFORMATION

Time Date

On Bottom	<u>1354</u>	<u>1/8/75</u>
	<u>1434</u>	
Packer Set	<u>1344</u>	<u>1/8/75</u>
Initial Open	<u>1435</u>	<u>1/8/75</u>
Initial Shut-In	<u>1438</u>	<u>1/8/75</u>
Start Flow	<u>1523</u>	<u>1/8/75</u>
Final Shut-In	<u>1713</u>	<u>1/8/75</u>
Packer Unseated	<u>1741</u>	<u>1/8/75</u>

## PRESSURE INFORMATION

Initial Hydrostatic Mud	_____
Initial Draw Down	_____
Initial Build-Up	_____
Final Flow	_____
Final Build-Up	_____
Final Hydrostatic Mud	_____
Mud Weight	_____

## TIME OF SURFACE NULLS

Top Gauge	<u>1220</u>	<u>1221</u>	<u>1222</u>	Bottom Gauge	<u>1158</u>	<u>1159</u>	<u>1200</u>
-----------	-------------	-------------	-------------	--------------	-------------	-------------	-------------

Remarks \_\_\_\_\_





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT CB  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

THESE DATA FROM GAUGE NO. 105, WITH A 1000LB.  
ELEMENT, SET IN DRILL PIPE AT 2330 FT.  
THE PACKER WAS SET AT 2320 FT.  
INITIAL HYDROSTATIC PRESSURE WAS 795.14 PSI.  
FINAL HYDROSTATIC PRESSURE WAS 800.69 PSI.  
THIS TEST ABORTED AND RE-RUN LATER SAME DAY.  
APPARENTLY NO RECOVERY.

II B-1530

156 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES



JOB NUMBER  
SPG-11210-II

DATE OF JC  
JANUARY 8, 197

GAUGE/RUN NUMBER  
105 DST-36-A INIT,OPEN

DATE OF RU  
JANUARY 30, 197

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.050	62,389	14 38	JAN 08,1975	INITIAL OPEN

II B-1531

1 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
105 DST-36-A SHUT-IN

DATE OF RUN  
JANUARY 30, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	62,389	14 38	JAN 08,1975	INITIAL CLOSE
,017	105,766	14 39	JAN 08,1975	
,035	164,644	14 40	JAN 08,1975	
,052	390,627	14 41	JAN 08,1975	
,070	480,710	14 42	JAN 08,1975	
,087	502,228	14 43	JAN 08,1975	
,105	516,725	14 44	JAN 08,1975	
,122	523,381	14 45	JAN 08,1975	
,140	528,328	14 46	JAN 08,1975	
,157	531,952	14 47	JAN 08,1975	
,174	534,642	14 48	JAN 08,1975	
,192	536,762	14 50	JAN 08,1975	
,209	538,403	14 51	JAN 08,1975	
,227	539,702	14 52	JAN 08,1975	
,244	540,773	14 53	JAN 08,1975	
,262	541,640	14 54	JAN 08,1975	
,279	542,346	14 55	JAN 08,1975	
,297	542,962	14 56	JAN 08,1975	
,314	543,418	14 57	JAN 08,1975	
,331	543,828	14 58	JAN 08,1975	
,349	544,147	14 59	JAN 08,1975	
,366	544,398	15 00	JAN 08,1975	
,384	544,603	15 01	JAN 08,1975	
,401	544,740	15 02	JAN 08,1975	
,419	544,808	15 03	JAN 08,1975	
,436	544,876	15 04	JAN 08,1975	
,453	544,922	15 05	JAN 08,1975	
,471	544,945	15 06	JAN 08,1975	
,488	544,922	15 07	JAN 08,1975	
,506	544,854	15 08	JAN 08,1975	
,523	544,762	15 09	JAN 08,1975	
,541	544,740	15 10	JAN 08,1975	
,558	544,626	15 11	JAN 08,1975	
,576	544,512	15 13	JAN 08,1975	
,593	544,352	15 14	JAN 08,1975	
,610	544,238	15 15	JAN 08,1975	
,628	544,079	15 16	JAN 08,1975	
,645	543,896	15 17	JAN 08,1975	
,663	543,760	15 18	JAN 08,1975	
,680	543,600	15 19	JAN 08,1975	

II B-1532





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
105 DST-36-A SHUT-IN

DATE OF RUN  
JANUARY 30, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.698	543,440	15 20	JAN 08,1975	
.715	543,258	15 21	JAN 08,1975	
.733	543,053	15 22	JAN 08,1975	STOP INJECTION
.750	542,893	15 23	JAN 08,1975	END CLOSE

II B-1533

44 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
105 DST-36-A FINAL OPEN

DATE OF RUN  
JANUARY 30, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	542,893	15 23	JAN 08,1975	FINAL OPEN
,017	551,897	15 24	JAN 08,1975	
,033	551,988	15 25	JAN 08,1975	
,050	551,920	15 26	JAN 08,1975	
,067	552,102	15 27	JAN 08,1975	
,083	552,125	15 28	JAN 08,1975	
,100	552,102	15 29	JAN 08,1975	
,117	552,034	15 30	JAN 08,1975	
,133	551,965	15 31	JAN 08,1975	
,150	551,829	15 32	JAN 08,1975	
,167	551,760	15 33	JAN 08,1975	
,183	551,646	15 34	JAN 08,1975	
,200	551,532	15 35	JAN 08,1975	
,217	551,418	15 36	JAN 08,1975	
,233	551,327	15 37	JAN 08,1975	
,250	551,190	15 38	JAN 08,1975	
,267	551,145	15 39	JAN 08,1975	
,283	551,054	15 40	JAN 08,1975	
,300	550,940	15 41	JAN 08,1975	
,317	550,940	15 42	JAN 08,1975	
,333	550,803	15 43	JAN 08,1975	
,350	550,666	15 44	JAN 08,1975	
,367	550,598	15 45	JAN 08,1975	
,383	550,507	15 46	JAN 08,1975	
,400	550,393	15 47	JAN 08,1975	
,417	550,370	15 48	JAN 08,1975	
,433	550,256	15 49	JAN 08,1975	
,450	550,210	15 50	JAN 08,1975	
,467	550,096	15 51	JAN 08,1975	
,483	550,096	15 52	JAN 08,1975	
,500	549,914	15 53	JAN 08,1975	
,517	549,754	15 54	JAN 08,1975	
,533	549,640	15 55	JAN 08,1975	
,550	549,686	15 56	JAN 08,1975	
,567	549,390	15 57	JAN 08,1975	
,583	548,729	15 58	JAN 08,1975	
,600	548,638	15 59	JAN 08,1975	
,617	547,999	16 00	JAN 08,1975	
,633	548,546	16 01	JAN 08,1975	
,650	548,227	16 02	JAN 08,1975	



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
105 DST-36-A FINAL OPEN

DATE OF RUN  
JANUARY 30, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	548,250	16 03	JAN 08,1975	
.683	548,410	16 04	JAN 08,1975	
.700	548,318	16 05	JAN 08,1975	
.717	548,318	16 06	JAN 08,1975	
.733	548,569	16 07	JAN 08,1975	
.750	548,638	16 08	JAN 08,1975	
.767	548,432	16 09	JAN 08,1975	
.783	548,660	16 10	JAN 08,1975	
.800	548,615	16 11	JAN 08,1975	
.817	548,090	16 12	JAN 08,1975	
.833	548,364	16 13	JAN 08,1975	
.850	548,341	16 14	JAN 08,1975	
.867	548,478	16 15	JAN 08,1975	
.883	548,318	16 16	JAN 08,1975	DOWN ANNULUS WITH 60 GPM
.900	548,182	16 17	JAN 08,1975	
.917	548,296	16 18	JAN 08,1975	
.933	548,273	16 19	JAN 08,1975	
.950	548,022	16 20	JAN 08,1975	
.967	548,136	16 21	JAN 08,1975	
.983	548,045	16 22	JAN 08,1975	
1,000	547,931	16 23	JAN 08,1975	
1,017	547,794	16 24	JAN 08,1975	
1,033	547,680	16 25	JAN 08,1975	
1,050	547,794	16 26	JAN 08,1975	
1,067	547,521	16 27	JAN 08,1975	
1,083	547,521	16 28	JAN 08,1975	
1,100	547,407	16 29	JAN 08,1975	
1,117	547,566	16 30	JAN 08,1975	
1,133	547,452	16 31	JAN 08,1975	
1,150	547,407	16 32	JAN 08,1975	
1,167	547,384	16 33	JAN 08,1975	
1,183	547,361	16 34	JAN 08,1975	
1,200	547,384	16 35	JAN 08,1975	
1,217	547,384	16 36	JAN 08,1975	
1,233	547,270	16 37	JAN 08,1975	
1,250	547,224	16 38	JAN 08,1975	
1,267	547,156	16 39	JAN 08,1975	
1,283	547,087	16 40	JAN 08,1975	
1,300	547,042	16 41	JAN 08,1975	
1,317	547,019	16 42	JAN 08,1975	





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
105 DST-36-A FINAL OPEN

DATE OF RUN  
JANUARY 30, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	546,928	16 43	JAN 08,1975	
1,350	546,837	16 44	JAN 08,1975	
1,367	546,814	16 45	JAN 08,1975	
1,383	546,746	16 46	JAN 08,1975	
1,400	546,677	16 47	JAN 08,1975	
1,417	546,586	16 48	JAN 08,1975	
1,433	546,518	16 49	JAN 08,1975	
1,450	546,449	16 50	JAN 08,1975	
1,467	546,381	16 51	JAN 08,1975	
1,483	546,312	16 52	JAN 08,1975	
1,500	546,267	16 53	JAN 08,1975	
1,517	546,176	16 54	JAN 08,1975	
1,533	546,153	16 55	JAN 08,1975	
1,550	546,085	16 56	JAN 08,1975	
1,567	546,039	16 57	JAN 08,1975	
1,583	545,971	16 58	JAN 08,1975	
1,600	545,902	16 59	JAN 08,1975	
1,617	545,857	17 00	JAN 08,1975	
1,633	545,765	17 01	JAN 08,1975	STOP INJECTION
1,650	545,743	17 02	JAN 08,1975	
1,667	545,674	17 03	JAN 08,1975	
1,683	545,606	17 04	JAN 08,1975	
1,700	545,560	17 05	JAN 08,1975	
1,717	545,469	17 06	JAN 08,1975	
1,733	545,424	17 07	JAN 08,1975	
1,750	545,355	17 08	JAN 08,1975	
1,767	545,287	17 09	JAN 08,1975	
1,783	545,241	17 10	JAN 08,1975	
1,800	545,196	17 11	JAN 08,1975	
1,817	545,127	17 12	JAN 08,1975	
1,833	545,173	17 13	JAN 08,1975	END TEST

II B-1536

111 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-II

DATE OF JO  
JANUARY 8, 197

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT CB  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

THESE DATA FROM GAUGE NO. 102, WITH A 1000LB.  
ELEMENT, SET IN ANNULUS AT 2268 FT.  
THE PACKER WAS SET AT 2320 FT.  
INITIAL HYDROSTATIC PRESSURE WAS 767.85 PSI  
FINAL HYDROSTATIC PRESSURE WAS 772.70 PSI  
THIS TEST ABORTED AND RE-RUN LATER SAME DAY.  
APPARENTLY NO RECOVERY.

II B-1537

159 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
102 DST-36-A INIT, OPEN

DATE OF RUN  
JANUARY 30, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	778,563	14 35	JAN 08, 1975	INITIAL OPEN
.050	778,791	14 38	JAN 08, 1975	

II B-1538

2 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
102 DST-36-A SHUT-IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	778,791	14 38	JAN 08,1975	INITIAL CLOSE
,017	778,472	14 39	JAN 08,1975	
,033	778,495	14 40	JAN 08,1975	
,050	778,563	14 41	JAN 08,1975	
,067	778,586	14 42	JAN 08,1975	
,083	778,609	14 43	JAN 08,1975	
,100	778,609	14 44	JAN 08,1975	
,117	778,609	14 45	JAN 08,1975	
,133	778,654	14 46	JAN 08,1975	
,150	778,654	14 47	JAN 08,1975	
,167	778,677	14 48	JAN 08,1975	
,183	778,700	14 49	JAN 08,1975	
,200	778,723	14 50	JAN 08,1975	
,217	778,745	14 51	JAN 08,1975	
,233	778,791	14 52	JAN 08,1975	
,250	778,814	14 53	JAN 08,1975	
,267	778,837	14 54	JAN 08,1975	
,283	778,882	14 55	JAN 08,1975	
,300	778,905	14 56	JAN 08,1975	
,317	778,928	14 57	JAN 08,1975	
,333	778,950	14 58	JAN 08,1975	
,350	778,996	14 59	JAN 08,1975	
,367	779,019	15 00	JAN 08,1975	
,383	779,064	15 01	JAN 08,1975	
,400	779,087	15 02	JAN 08,1975	
,417	779,110	15 03	JAN 08,1975	
,433	779,110	15 04	JAN 08,1975	
,450	779,087	15 05	JAN 08,1975	
,467	779,178	15 06	JAN 08,1975	
,483	779,247	15 07	JAN 08,1975	
,500	779,269	15 08	JAN 08,1975	
,517	779,292	15 09	JAN 08,1975	
,533	779,315	15 10	JAN 08,1975	
,550	779,361	15 11	JAN 08,1975	
,567	779,383	15 12	JAN 08,1975	
,583	779,406	15 13	JAN 08,1975	
,600	779,452	15 14	JAN 08,1975	
,617	779,520	15 15	JAN 08,1975	
,633	779,520	15 16	JAN 08,1975	
,650	779,566	15 17	JAN 08,1975	



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
102 DST-36-A SHUT-IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
,667	779,611	15 18	JAN 08,1975	
,683	779,657	15 19	JAN 08,1975	
,700	779,657	15 20	JAN 08,1975	
,717	779,702	15 21	JAN 08,1975	
,733	779,725	15 22	JAN 08,1975	
,750	779,748	15 23	JAN 08,1975	END SHUT-IN

II B-1540

46 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
102 DST-36-A FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	779,748	15 23	JAN 08,1975	OPEN TO FLOW
,017	779,702	15 24	JAN 08,1975	
,033	779,999	15 25	JAN 08,1975	
,050	780,044	15 26	JAN 08,1975	
,067	780,067	15 27	JAN 08,1975	
,083	780,090	15 28	JAN 08,1975	
,100	780,112	15 29	JAN 08,1975	
,117	780,112	15 30	JAN 08,1975	
,133	780,158	15 31	JAN 08,1975	
,150	780,158	15 32	JAN 08,1975	
,167	780,181	15 33	JAN 08,1975	
,183	780,226	15 34	JAN 08,1975	
,200	780,249	15 35	JAN 08,1975	
,217	780,272	15 36	JAN 08,1975	
,233	780,295	15 37	JAN 08,1975	
,250	780,318	15 38	JAN 08,1975	
,267	780,363	15 39	JAN 08,1975	
,283	780,340	15 40	JAN 08,1975	
,300	780,340	15 41	JAN 08,1975	
,317	780,431	15 42	JAN 08,1975	
,333	780,431	15 43	JAN 08,1975	
,350	780,431	15 44	JAN 08,1975	
,367	780,431	15 45	JAN 08,1975	
,383	780,431	15 46	JAN 08,1975	
,400	780,477	15 47	JAN 08,1975	
,417	780,500	15 48	JAN 08,1975	
,433	780,545	15 49	JAN 08,1975	
,450	780,568	15 50	JAN 08,1975	
,467	780,591	15 51	JAN 08,1975	
,483	780,614	15 52	JAN 08,1975	
,500	780,637	15 53	JAN 08,1975	
,517	780,637	15 54	JAN 08,1975	
,533	780,637	15 55	JAN 08,1975	
,550	780,659	15 56	JAN 08,1975	
,567	780,682	15 57	JAN 08,1975	
,583	780,705	15 58	JAN 08,1975	
,600	780,750	15 59	JAN 08,1975	
,617	780,750	16 00	JAN 08,1975	
,633	780,773	16 01	JAN 08,1975	
,650	780,796	16 02	JAN 08,1975	





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
102 DST-36-A FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.667	780,819	16 03	JAN 08,1975	
.683	780,842	16 04	JAN 08,1975	
.700	780,864	16 05	JAN 08,1975	
.717	780,864	16 06	JAN 08,1975	
.733	780,887	16 07	JAN 08,1975	
.750	780,933	16 08	JAN 08,1975	
.767	780,955	16 09	JAN 08,1975	
.783	780,955	16 10	JAN 08,1975	
.800	780,955	16 11	JAN 08,1975	
.817	781,001	16 12	JAN 08,1975	
.833	781,001	16 13	JAN 08,1975	
.850	781,024	16 14	JAN 08,1975	
.867	781,092	16 15	JAN 08,1975	
.883	781,092	16 16	JAN 08,1975	
.900	781,115	16 17	JAN 08,1975	
.917	781,138	16 18	JAN 08,1975	
.933	781,161	16 19	JAN 08,1975	
.950	781,183	16 20	JAN 08,1975	
.967	781,183	16 21	JAN 08,1975	
.983	781,229	16 22	JAN 08,1975	
1,000	781,229	16 23	JAN 08,1975	
1,017	781,252	16 24	JAN 08,1975	
1,033	781,297	16 25	JAN 08,1975	
1,050	781,297	16 26	JAN 08,1975	
1,067	781,320	16 27	JAN 08,1975	
1,083	781,457	16 28	JAN 08,1975	END FLOW
1,100	783,371	16 29	JAN 08,1975	START INJECT
1,117	785,968	16 30	JAN 08,1975	DOWN ANNULUS
1,133	788,041	16 31	JAN 08,1975	AT 60 GPM
1,150	789,750	16 32	JAN 08,1975	
1,167	791,186	16 33	JAN 08,1975	
1,183	792,393	16 34	JAN 08,1975	
1,200	793,487	16 35	JAN 08,1975	
1,217	794,626	16 36	JAN 08,1975	
1,233	795,424	16 37	JAN 08,1975	
1,250	796,290	16 38	JAN 08,1975	
1,267	797,019	16 39	JAN 08,1975	
1,283	797,679	16 40	JAN 08,1975	
1,300	798,203	16 41	JAN 08,1975	
1,317	798,773	16 42	JAN 08,1975	



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8, 1975

GAUGE/RUN NUMBER  
102 DST-36-A FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,333	799,251	16 43	JAN 08,1975	
1,350	799,684	16 44	JAN 08,1975	
1,367	800,049	16 45	JAN 08,1975	
1,383	800,436	16 46	JAN 08,1975	
1,400	800,710	16 47	JAN 08,1975	
1,417	801,006	16 48	JAN 08,1975	
1,433	801,302	16 49	JAN 08,1975	
1,450	801,530	16 50	JAN 08,1975	
1,467	801,735	16 51	JAN 08,1975	
1,483	801,940	16 52	JAN 08,1975	
1,500	802,122	16 53	JAN 08,1975	
1,517	802,191	16 54	JAN 08,1975	
1,533	802,236	16 55	JAN 08,1975	
1,550	802,350	16 56	JAN 08,1975	
1,567	802,396	16 57	JAN 08,1975	
1,583	802,578	16 58	JAN 08,1975	
1,600	802,760	16 59	JAN 08,1975	
1,617	802,897	17 00	JAN 08,1975	
1,633	802,988	17 01	JAN 08,1975	
1,650	803,170	17 02	JAN 08,1975	
1,667	803,284	17 03	JAN 08,1975	
1,683	803,376	17 04	JAN 08,1975	
1,700	803,535	17 05	JAN 08,1975	
1,717	803,649	17 06	JAN 08,1975	
1,733	803,786	17 07	JAN 08,1975	
1,750	803,831	17 08	JAN 08,1975	
1,767	803,945	17 09	JAN 08,1975	
1,783	804,082	17 10	JAN 08,1975	
1,800	804,173	17 11	JAN 08,1975	
1,817	804,127	17 12	JAN 08,1975	
1,833	802,396	17 13	JAN 08,1975	END TEST

II B-1543

111 POINTS REPORTED THIS RUN



JOHNSTON

Schulmerberg

technical  
report





[illegible]

Remarks: \_\_\_\_\_

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY Field SORGHUM GULCH

Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3S-96W

Test Interval 2315' TO 2370' II B-1545 Test # 36-B Date 1-8-75

County RIO BLANCO State COLORADO Field Report No. 09089 C

Technician BURNS (VERNAL) Test Approved By MR. CHARLES BERGONZINI No. Reports Requested 14 13x



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-		785.3	803.1
OPENED TOOL (1-8-75)	2	2154	0	53.7	61.4
CLOSED FOR INITIAL					
SHUT-IN	3	2156	2	72.0	72.6
			4	180.9	420.3
			6	419.5	704.6
			8	634.5	706.0
			10	693.5	707.4
			12	710.6	732.8
			14	721.1	741.2
			16	726.3	744.0
			18	728.9	746.8
			20	731.6	749.6
			22	734.2	749.6
			24	735.5	751.1
			26	736.8	751.1
			28	736.8	752.5
			30	736.8	752.5
			32	736.8	753.9
			34	736.8	753.9
INITIAL SHUT-IN -					
CYCLED TOOL	4	2230	36	736.8	753.9
TOOL RE-OPENED -					
INITIAL FLOW	5	2230	36	72.0	92.3
			38	112.7	121.9
			40	119.2	126.1
			42	123.2	131.8
			44	127.1	136.0
			46	129.7	138.8
			48	132.3	141.6
			50	135.0	144.4
			52	137.6	147.2
			54	138.9	148.6
			56	141.5	150.0
			58	142.8	150.0
			60	142.8	150.0
			62	144.1	151.5
			64	144.1	152.9
			66	145.5	152.9
			68	146.8	154.3
			70	148.1	155.7
			72	148.1	155.7
			74	148.1	155.7
			76	149.4	157.1
			78	149.4	158.5
			80	150.7	158.5
			82	150.7	159.9
			84	152.0	159.9
			86	153.3	161.3
			88	153.3	161.3
			90	153.3	161.3
			92	154.6	162.7
			94	154.6	162.7
			96	155.9	162.7
			98	155.9	164.1



<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>
			100	155.9	164.1
			102	157.3	165.5
			104	157.3	165.5
			106	157.3	165.5
			108	158.6	166.9
			110	158.6	166.9
			112	158.6	166.9
			114	158.6	168.3
			116	159.9	168.3
			118	159.9	169.8
			120	159.9	169.8
			122	161.2	169.8
			124	161.2	169.8
			126	161.2	171.2
			128	161.2	171.2
			130	162.5	171.2
			132	162.5	171.2
			134	162.5	171.2
			136	162.5	172.6
			138	162.5	172.6
			140	163.8	172.6
			142	163.8	174.0
			144	165.1	174.0
			146	165.1	174.0
			148	165.1	174.0
			150	165.1	174.0
			152	165.1	175.4
			154	166.4	175.4
			156	166.4	175.4
			158	166.4	175.4
			160	166.4	175.4
			162	166.4	176.8
FINAL FLOW - CLOSED					
TOOL, PULLED					
PACKER LOOSE(1-9-75)	6	0038	164	166.4	176.8
FINAL HYDROSTATIC	7	-		781.4	800.3

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):

2600#

2800#

DEPTH:

2290'

2316'

INSTRUMENT OPENING:

INSIDE

OUTSIDE







FIELD REPORT NO.

09089 C

CAPACITY

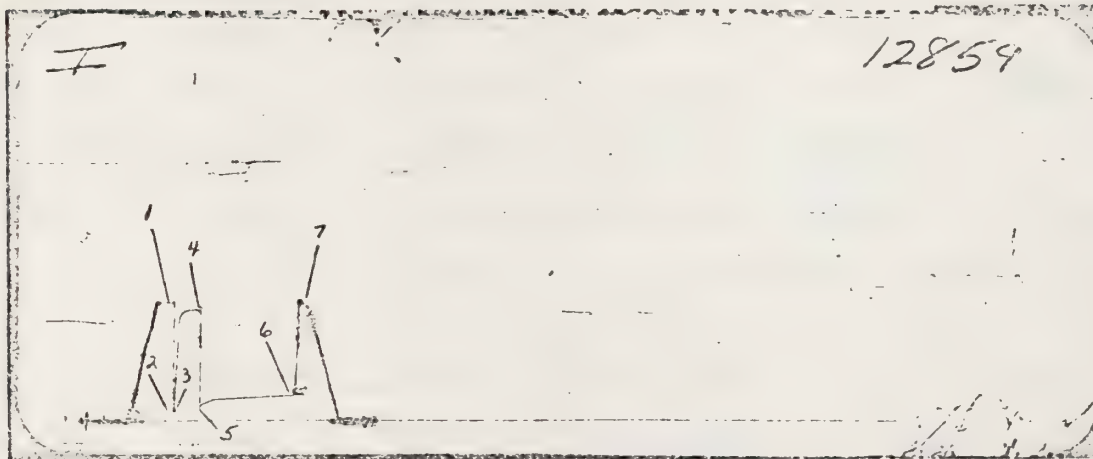
2600#

RECORDER NO.

4633 N

REPORTS REQUESTED

14+



FIELD REPORT NO.

09089 C

CAPACITY

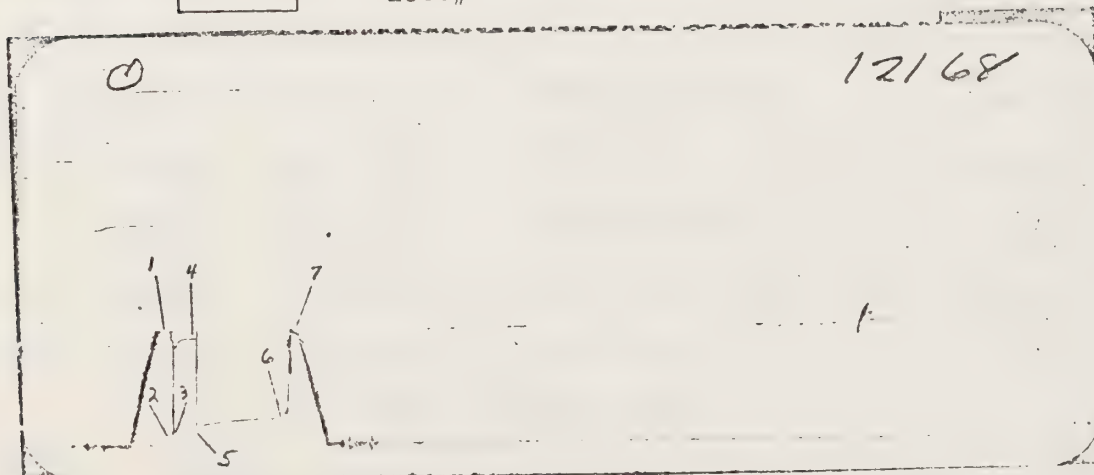
2800#

RECORDER NO.

4097 N

REPORTS REQUESTED

14+





# PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-11210 IS Date 1/8/75 Run DST-36 B Office CASPER  
 Customer Arco Et AL Location Sorghum Gulch  
 State Colo. County/Parish Rio Blanco  
 Well Sorghum Gulch No. 17 Field Treat-Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well/Dock	1. <u>2000</u>	<u>1/8/75</u>	2. _____	_____	
Depart: Well/Dock	1. <u>0315</u>	<u>1/9/75</u>	2. _____	_____	<u>8 1/4</u> Hrs.
Gauge Start in Hole	1. <u>1945</u>	<u>1/8/75</u>	2. <u>2015</u>	<u>1/8/75</u>	
Gauge Out of Hole	1. <u>0248</u>	<u>1/9/75</u>	2. <u>0221</u>	<u>1/9/75</u>	<u>7</u> Hrs.
No. Trips	<u>1</u>	Miles	<u>90</u>	Total Mileage	<u>90</u>

2721

-----  
 Top Gauge # 102 Element # 32764 Range 1000 Time Mode 1 min  
 Btm. Gauge # 105 Element # 35993 Range 1400 Time Mode 1 min  
 Type Tool DST Test Depth 2315-2370 Zero Point Ground level  
 Packer Depth 2315 Tail Pipe Depth 2263 Top Gauge Depth 2265  
 Bottom Hole Temp. \_\_\_\_\_ Atmos. Temp. \_\_\_\_\_ Bottom Gauge Depth 2325

## TIME INFORMATION

## PRESSURE INFORMATION

	Time	Date
On Bottom	<u>2150</u>	<u>1/8/75</u>
Packer Set	<u>2151</u>	<u>1/8/75</u>
Initial Open	<u>2153</u>	<u>1/8/75</u>
Initial Shut-In	<u>2155</u>	<u>1/8/75</u>
Start Flow	<u>2228</u>	<u>1/8/75</u>
Final Shut-In	<u>0036</u>	<u>1/9/75</u>
Packer Unseated	<u>0043</u>	<u>1/9/75</u>

Initial Hydrostatic Mud	_____
Initial Draw Down	_____
Initial Build-Up	_____
Final Flow	_____
Final Build-Up	_____
Final Hydrostatic Mud	_____
Mud Weight	_____

2436  
2224  
208  
120

## TIME OF SURFACE NULLS

Top Gauge 1943 1944 1945 Bottom Gauge 2010 2011 2012

Remarks \_\_\_\_\_



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT CB  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

THIS IS RUN NO 2 FOR THIS ZONE AS FIRST RUN ABORTED

THIS GAUGE NO, 105 WITH 1400 LB ELEMENT WAS SET AT 2325 FT.

THE PACKER WAS SET AT 2315 FT.

REFERENCE ELEVATION IS 7036 FT.

NO HYDROSTATIC PRESSURES AVAILABLE THIS RUN.

II B-1550

161 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
105 DST NO. 36-8 INITIAL D

DATE OF RUN

N

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	150.951	21 53	JAN 08, 1975	INITIAL OPEN
.017	149.288	21 54	JAN 08, 1975	
.033	155.282	21 55	JAN 08, 1975	END OPEN

II B-1551

3 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
105 DST NO. 36-BSHUTIN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	155,282	21 55	JAN 08,1975	INITIAL CLOSE
,017	296,735	21 56	JAN 08,1975	
,034	571,135	21 57	JAN 08,1975	
,052	733,420	21 58	JAN 08,1975	
,069	768,401	21 59	JAN 08,1975	
,086	776,344	22 00	JAN 08,1975	
,103	802,572	22 01	JAN 08,1975	
,120	808,833	22 02	JAN 08,1975	
,138	813,349	22 03	JAN 08,1975	
,155	816,807	22 04	JAN 08,1975	
,172	819,455	22 05	JAN 08,1975	
,189	821,604	22 06	JAN 08,1975	
,206	823,348	22 07	JAN 08,1975	
,223	824,812	22 08	JAN 08,1975	
,241	825,965	22 09	JAN 08,1975	
,258	826,962	22 10	JAN 08,1975	
,275	827,803	22 12	JAN 08,1975	
,292	828,644	22 13	JAN 08,1975	
,309	829,080	22 14	JAN 08,1975	
,327	829,578	22 15	JAN 08,1975	
,344	830,014	22 16	JAN 08,1975	
,361	830,357	22 17	JAN 08,1975	
,378	830,637	22 18	JAN 08,1975	
,395	830,855	22 19	JAN 08,1975	
,413	831,042	22 20	JAN 08,1975	
,430	831,167	22 21	JAN 08,1975	
,447	831,229	22 22	JAN 08,1975	
,464	831,322	22 23	JAN 08,1975	
,481	831,354	22 24	JAN 08,1975	
,498	831,354	22 25	JAN 08,1975	
,516	831,354	22 26	JAN 08,1975	
,533	822,102	22 27	JAN 08,1975	
,550	825,778	22 28	JAN 08,1975	END CLOSE

II B-1552

33 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	825,778	22 28	JAN 08,1975	FINAL OPEN
,017	416,953	22 29	JAN 08,1975	
,034	422,182	22 30	JAN 08,1975	
,052	426,695	22 31	JAN 08,1975	
,069	429,994	22 32	JAN 08,1975	
,086	432,452	22 33	JAN 08,1975	
,103	434,506	22 34	JAN 08,1975	
,120	436,685	22 35	JAN 08,1975	
,138	438,584	22 36	JAN 08,1975	
,155	440,451	22 37	JAN 08,1975	
,172	442,132	22 38	JAN 08,1975	
,189	443,719	22 39	JAN 08,1975	
,206	445,088	22 40	JAN 08,1975	
,224	446,426	22 41	JAN 08,1975	
,241	447,796	22 42	JAN 08,1975	
,258	449,010	22 43	JAN 08,1975	
,275	450,223	22 45	JAN 08,1975	
,292	451,468	22 46	JAN 08,1975	
,310	452,527	22 47	JAN 08,1975	
,327	453,460	22 48	JAN 08,1975	
,344	454,176	22 49	JAN 08,1975	END RECOVERY
,361	455,016	22 50	JAN 08,1975	
,378	455,639	22 51	JAN 08,1975	
,396	456,199	22 52	JAN 08,1975	
,413	455,826	22 53	JAN 08,1975	
,430	455,110	22 54	JAN 08,1975	
,447	456,821	22 55	JAN 08,1975	
,465	457,288	22 56	JAN 08,1975	
,482	457,537	22 57	JAN 08,1975	
,499	457,942	22 58	JAN 08,1975	
,516	458,595	22 59	JAN 08,1975	
,533	459,062	23 00	JAN 08,1975	
,551	459,187	23 01	JAN 08,1975	
,568	459,934	23 02	JAN 08,1975	
,585	460,338	23 03	JAN 08,1975	
,602	460,930	23 04	JAN 08,1975	
,619	461,147	23 05	JAN 08,1975	
,637	461,583	23 06	JAN 08,1975	
,654	461,926	23 07	JAN 08,1975	
,671	461,988	23 08	JAN 08,1975	

II B-1553





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.688	462,392	23 09	JAN 08,1975	
.705	462,953	23 10	JAN 08,1975	
.723	463,264	23 11	JAN 08,1975	
.740	463,513	23 12	JAN 08,1975	
.757	463,686	23 13	JAN 08,1975	
.774	464,260	23 14	JAN 08,1975	
.791	464,664	23 15	JAN 08,1975	
.809	464,882	23 17	JAN 08,1975	
.826	465,411	23 18	JAN 08,1975	
.843	465,816	23 19	JAN 08,1975	
.860	465,972	23 20	JAN 08,1975	
.877	466,096	23 21	JAN 08,1975	
.895	466,345	23 22	JAN 08,1975	
.912	466,750	23 23	JAN 08,1975	
.929	466,936	23 24	JAN 08,1975	
.946	467,528	23 25	JAN 08,1975	
.963	467,683	23 26	JAN 08,1975	
.981	467,870	23 27	JAN 08,1975	
.998	468,181	23 28	JAN 08,1975	
1.015	468,492	23 29	JAN 08,1975	
1.032	468,866	23 30	JAN 08,1975	
1.049	468,990	23 31	JAN 08,1975	
1.067	469,551	23 32	JAN 08,1975	
1.084	469,706	23 33	JAN 08,1975	
1.101	469,986	23 34	JAN 08,1975	
1.118	470,360	23 35	JAN 08,1975	
1.135	470,484	23 36	JAN 08,1975	
1.153	470,796	23 37	JAN 08,1975	
1.170	471,138	23 38	JAN 08,1975	
1.187	471,387	23 39	JAN 08,1975	
1.204	471,480	23 40	JAN 08,1975	
1.221	471,729	23 41	JAN 08,1975	
1.239	471,854	23 42	JAN 08,1975	
1.256	472,134	23 43	JAN 08,1975	
1.273	472,414	23 44	JAN 08,1975	
1.290	472,725	23 45	JAN 08,1975	
1.308	472,787	23 46	JAN 08,1975	
1.325	473,005	23 47	JAN 08,1975	
1.342	473,348	23 49	JAN 08,1975	
1.359	473,752	23 50	JAN 08,1975	

IT B-1554



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,376	474,001	23 51	JAN 08,1975	
1,394	474,032	23 52	JAN 08,1975	
1,411	474,001	23 53	JAN 08,1975	
1,428	474,375	23 54	JAN 08,1975	
1,445	474,561	23 55	JAN 08,1975	
1,462	474,686	23 56	JAN 08,1975	
1,480	474,904	23 57	JAN 08,1975	
1,497	474,873	23 58	JAN 08,1975	
1,514	475,184	23 59	JAN 08,1975	
1,531	475,433	00 00	JAN 09,1975	
1,548	475,464	00 01	JAN 09,1975	
1,566	475,744	00 02	JAN 09,1975	
1,583	475,806	00 03	JAN 09,1975	
1,600	476,024	00 04	JAN 09,1975	
1,617	476,086	00 05	JAN 09,1975	
1,634	476,335	00 06	JAN 09,1975	
1,652	476,460	00 07	JAN 09,1975	
1,669	476,709	00 08	JAN 09,1975	
1,686	476,896	00 09	JAN 09,1975	
1,703	477,020	00 10	JAN 09,1975	
1,720	477,145	00 11	JAN 09,1975	
1,738	477,394	00 12	JAN 09,1975	
1,755	477,425	00 13	JAN 09,1975	
1,772	477,736	00 14	JAN 09,1975	
1,789	478,016	00 15	JAN 09,1975	
1,806	477,985	00 16	JAN 09,1975	
1,824	478,234	00 17	JAN 09,1975	
1,841	478,421	00 18	JAN 09,1975	
1,858	478,607	00 19	JAN 09,1975	
1,875	478,887	00 21	JAN 09,1975	
1,892	478,887	00 22	JAN 09,1975	
1,910	479,199	00 23	JAN 09,1975	
1,927	479,230	00 24	JAN 09,1975	
1,944	479,323	00 25	JAN 09,1975	
1,961	479,385	00 26	JAN 09,1975	
1,978	479,603	00 27	JAN 09,1975	
1,996	479,759	00 28	JAN 09,1975	
2,013	480,008	00 29	JAN 09,1975	
2,030	479,977	00 30	JAN 09,1975	
2,047	480,288	00 31	JAN 09,1975	

II B-1555



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
105 DST36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2.064	480,537	00 32	JAN 09,1975	
2.082	480,475	00 33	JAN 09,1975	
2.099	480,817	00 34	JAN 09,1975	
2.116	481,066	00 35	JAN 09,1975	
2.133	481,097	00 36	JAN 09,1975	END TEST

II B-1556

125 POINTS REPORTED THIS RUN

PAGE 7





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SCRGHUM GULCH    TRACT CB  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

THIS IS RUN NO. 2 FOR THIS ZONE AS FIRST RUN ABORTED.  
THIS GAUGE NO. 102 WITH 1000 LB. ELEMENT WAS SET AT 2263 FT.  
THE PACKER WAS SET AT 2315 FT.  
REFERENCE ELEVATION IS 7036 FT.  
NO HYDROSTATIC PRESSURES AVAILABLE THIS RUN.

II B-1557

164 POINTS REPORTED THIS JOB

PAGE 1 OF 7 PAGES



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
102 DST NO.36-B INITIAL OP

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	786.018	21 53	JAN 08,1975	INITIAL OPEN
.017	786.040	21 54	JAN 08,1975	
.033	785.972	21 55	JAN 08,1975	INITIAL OPEN

II B-1558

3 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
102 DST NO. 36-B SHUTIN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	785.972	21 55	JAN 08, 1975	INITIAL CLOSE
.017	785.402	21 56	JAN 08, 1975	
.034	785.425	21 57	JAN 08, 1975	
.052	785.379	21 58	JAN 08, 1975	
.069	785.334	21 59	JAN 08, 1975	
.086	785.288	22 00	JAN 08, 1975	
.103	785.288	22 01	JAN 08, 1975	
.120	785.288	22 02	JAN 08, 1975	
.138	785.243	22 03	JAN 08, 1975	
.155	785.220	22 04	JAN 08, 1975	
.172	785.220	22 05	JAN 08, 1975	
.189	785.174	22 06	JAN 08, 1975	
.206	785.174	22 07	JAN 08, 1975	
.223	785.174	22 08	JAN 08, 1975	
.241	785.151	22 09	JAN 08, 1975	
.258	785.151	22 10	JAN 08, 1975	
.275	785.106	22 12	JAN 08, 1975	
.292	785.083	22 13	JAN 08, 1975	
.309	785.106	22 14	JAN 08, 1975	
.327	785.083	22 15	JAN 08, 1975	
.344	785.060	22 16	JAN 08, 1975	
.361	785.038	22 17	JAN 08, 1975	
.378	785.015	22 18	JAN 08, 1975	
.395	785.015	22 19	JAN 08, 1975	
.413	784.992	22 20	JAN 08, 1975	
.430	784.969	22 21	JAN 08, 1975	
.447	784.969	22 22	JAN 08, 1975	
.464	784.969	22 23	JAN 08, 1975	
.481	784.946	22 24	JAN 08, 1975	
.498	784.946	22 25	JAN 08, 1975	
.516	784.901	22 26	JAN 08, 1975	
.533	784.901	22 27	JAN 08, 1975	
.550	792.514	22 28	JAN 08, 1975	END CLOSE

II B-1559

33 POINTS REPORTED THIS RUN





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
102 DST NO.36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	792.514	22 28	JAN 08,1975	FINAL OPEN
.017	784.696	22 29	JAN 08,1975	
.034	785.038	22 30	JAN 08,1975	
.050	785.038	22 31	JAN 08,1975	
.067	785.015	22 32	JAN 08,1975	
.084	784.969	22 33	JAN 08,1975	
.101	784.924	22 34	JAN 08,1975	
.118	784.901	22 35	JAN 08,1975	
.134	784.901	22 36	JAN 08,1975	
.151	784.878	22 37	JAN 08,1975	
.168	784.901	22 38	JAN 08,1975	
.185	784.878	22 39	JAN 08,1975	
.202	784.878	22 40	JAN 08,1975	
.218	784.878	22 41	JAN 08,1975	
.235	784.878	22 42	JAN 08,1975	
.252	784.901	22 43	JAN 08,1975	
.269	784.901	22 44	JAN 08,1975	
.286	784.901	22 45	JAN 08,1975	
.302	784.901	22 46	JAN 08,1975	
.319	784.901	22 47	JAN 08,1975	
.336	784.901	22 48	JAN 08,1975	
.353	784.901	22 49	JAN 08,1975	
.370	784.924	22 50	JAN 08,1975	
.386	784.946	22 51	JAN 08,1975	
.403	784.878	22 52	JAN 08,1975	
.420	784.924	22 53	JAN 08,1975	
.437	784.924	22 54	JAN 08,1975	
.454	784.901	22 55	JAN 08,1975	
.470	784.924	22 56	JAN 08,1975	
.487	784.946	22 57	JAN 08,1975	
.504	784.924	22 58	JAN 08,1975	
.521	784.924	22 59	JAN 08,1975	
.538	784.924	23 00	JAN 08,1975	
.554	784.946	23 01	JAN 08,1975	END RECOVERY STANDING BY ON OBSERVATION
.571	784.969	23 02	JAN 08,1975	
.588	784.969	23 03	JAN 08,1975	
.605	784.969	23 04	JAN 08,1975	
.622	784.969	23 05	JAN 08,1975	
.638	784.969	23 06	JAN 08,1975	
.655	785.015	23 07	JAN 08,1975	

II B-1560

PAGE 4



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
102 DST NO. 36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.672	785.015	23 08	JAN 08, 1975	
.689	785.015	23 09	JAN 08, 1975	
.706	785.015	23 10	JAN 08, 1975	
.722	785.015	23 11	JAN 08, 1975	
.739	785.038	23 12	JAN 08, 1975	
.756	785.015	23 13	JAN 08, 1975	
.773	785.060	23 14	JAN 08, 1975	
.790	785.038	23 15	JAN 08, 1975	
.806	785.083	23 16	JAN 08, 1975	
.823	785.083	23 17	JAN 08, 1975	
.840	785.083	23 18	JAN 08, 1975	
.857	785.060	23 19	JAN 08, 1975	
.873	785.106	23 20	JAN 08, 1975	
.890	785.129	23 21	JAN 08, 1975	
.907	785.174	23 22	JAN 08, 1975	
.924	785.129	23 23	JAN 08, 1975	
.941	785.151	23 24	JAN 08, 1975	
.957	785.151	23 25	JAN 08, 1975	
.974	785.174	23 26	JAN 08, 1975	
.991	785.151	23 27	JAN 08, 1975	
1.008	785.174	23 28	JAN 08, 1975	
1.025	785.197	23 29	JAN 08, 1975	
1.041	785.197	23 30	JAN 08, 1975	
1.058	785.220	23 31	JAN 08, 1975	
1.075	785.197	23 33	JAN 08, 1975	
1.092	785.220	23 34	JAN 08, 1975	
1.109	785.243	23 35	JAN 08, 1975	
1.125	785.265	23 36	JAN 08, 1975	
1.142	785.265	23 37	JAN 08, 1975	
1.159	785.243	23 38	JAN 08, 1975	
1.176	785.243	23 39	JAN 08, 1975	
1.193	785.288	23 40	JAN 08, 1975	
1.209	785.288	23 41	JAN 08, 1975	
1.226	785.265	23 42	JAN 08, 1975	
1.243	785.220	23 43	JAN 08, 1975	
1.260	785.265	23 44	JAN 08, 1975	
1.277	785.334	23 45	JAN 08, 1975	
1.293	785.288	23 46	JAN 08, 1975	
1.310	785.357	23 47	JAN 08, 1975	
1.327	785.334	23 48	JAN 08, 1975	

II B-1561



JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
102 DST NO. 36-B FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,344	785,357	23 49	JAN 08, 1975	
1,361	785,334	23 50	JAN 08, 1975	
1,377	785,357	23 51	JAN 08, 1975	
1,394	785,379	23 52	JAN 08, 1975	
1,411	785,402	23 53	JAN 08, 1975	
1,428	785,357	23 54	JAN 08, 1975	
1,445	785,379	23 55	JAN 08, 1975	
1,461	785,379	23 56	JAN 08, 1975	
1,478	785,448	23 57	JAN 08, 1975	
1,495	785,448	23 58	JAN 08, 1975	
1,512	785,425	23 59	JAN 08, 1975	
1,529	785,448	00 00	JAN 09, 1975	
1,545	785,425	00 01	JAN 09, 1975	
1,562	785,471	00 02	JAN 09, 1975	
1,579	785,448	00 03	JAN 09, 1975	
1,596	785,448	00 04	JAN 09, 1975	
1,613	785,493	00 05	JAN 09, 1975	
1,629	785,493	00 06	JAN 09, 1975	
1,646	785,471	00 07	JAN 09, 1975	
1,663	785,493	00 08	JAN 09, 1975	
1,680	785,471	00 09	JAN 09, 1975	
1,697	785,493	00 10	JAN 09, 1975	
1,713	785,471	00 11	JAN 09, 1975	
1,730	785,493	00 12	JAN 09, 1975	
1,747	785,516	00 13	JAN 09, 1975	
1,764	785,493	00 14	JAN 09, 1975	
1,781	785,539	00 15	JAN 09, 1975	
1,797	785,562	00 16	JAN 09, 1975	
1,814	785,607	00 17	JAN 09, 1975	
1,831	785,630	00 18	JAN 09, 1975	
1,848	785,653	00 19	JAN 09, 1975	
1,865	785,630	00 20	JAN 09, 1975	
1,881	785,676	00 21	JAN 09, 1975	
1,898	785,676	00 22	JAN 09, 1975	
1,915	785,699	00 23	JAN 09, 1975	
1,932	785,676	00 24	JAN 09, 1975	
1,949	785,676	00 25	JAN 09, 1975	
1,965	785,676	00 26	JAN 09, 1975	
1,982	785,721	00 27	JAN 09, 1975	
1,999	785,721	00 28	JAN 09, 1975	

II B-1562





JOB NUMBER  
SPG-11210-II

DATE OF JOB  
JANUARY 8 AND 9, 1975

GAUGE/RUN NUMBER  
102 DST NO. 36-R FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,016	785,721	00 29	JAN 09,1975	
2,033	785,699	00 30	JAN 09,1975	
2,049	785,744	00 31	JAN 09,1975	
2,066	785,767	00 32	JAN 09,1975	
2,083	785,744	00 33	JAN 09,1975	NO EVIDENCE OF
2,100	785,721	00 34	JAN 09,1975	RECOVERY SO
2,117	785,744	00 35	JAN 09,1975	TEST ABORTED
2,133	785,790	00 36	JAN 09,1975	END TEST

II B-1563

128 POINTS REPORTED THIS RUN

PAGE 7



JOHNSTON

Schlumberger

technical  
report



## EQUIPMENT &amp; HOLE DATA

Type Test	M. F. E. OPEN HOLE		
Formation Tested	GREEN RIVER		
Elevation	7036		Ft.
Net Productive Interval	65		Ft.
Estimated Porosity	-		%
All Depths Measured From	-		
Total Depth	2460		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	297'	I.D.	-
Drill Pipe Length	2045'	I.D.	-
Packer Depth(s)	2391 & 2395		Ft.

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface

Recovery: Cu. Ft. Gas \_\_\_\_\_

cc. Oil \_\_\_\_\_

cc. Water \_\_\_\_\_

cc. Mud \_\_\_\_\_

Tot. Liquid cc. \_\_\_\_\_

Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.

Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm

Remarks: PUMPED WATER IN DRILL PIPE UP TO WITHIN 960' OF SURFACE.

Technician BURNS (VERNAL) Test Approved By MR. ALLEN D. WALLER No. Reports Requested 14 (13x)





## FIELD REPORT #09090 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-		822.8	837.8
OPENED TOOL	2	1304	0	485.0	498.2
			2	494.9	507.3
CLOSED FOR INITIAL SHUT-IN	3	1308	4	497.7	508.7
			6	630.0	647.6
			8	625.8	645.0
			10	624.4	643.7
			12	621.6	641.1
			14	618.7	637.2
			16	615.9	634.5
			18	613.1	631.9
			20	611.7	629.3
			22	610.3	628.0
			24	607.5	625.4
			26	606.1	624.0
			28	604.7	622.7
			30	601.9	620.1
			32	600.4	618.8
INITIAL SHUT-IN	4	1337	33	600.4	617.5
			34	638.5	621.4
RE-OPENED TOOL - INITIAL FLOW	5	1339	35	646.9	662.1
			36	646.9	663.4
			38	646.9	663.4
			40	646.9	663.4
			42	646.9	663.4
			44	646.9	662.1
			46	646.9	662.1
			48	646.9	662.1
			50	646.9	662.1
			52	646.9	662.1
			54	646.9	662.1
			56	646.9	662.1
			58	646.9	662.1
			60	646.9	662.1
			62	646.9	662.1
			64	646.9	662.1
			66	646.9	662.1
			68	646.9	662.1
			70	646.9	662.1
			72	646.9	662.1
			74	646.9	662.1
			76	646.9	662.1
			78	646.9	662.1
			80	646.9	662.1
			82	646.9	660.8
			84	646.9	660.8
			86	646.9	660.8
			88	646.9	660.8
			90	646.9	660.8
			92	646.9	660.8
			94	646.9	660.8
			96	646.9	660.8



## FIELD REPORT #09090 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N PRESSURE (P.S.I.G.)</u>
			98	646.9	660.8
			100	646.9	660.8
			102	646.9	660.8
			104	646.9	660.8
			106	646.9	660.8
			108	646.9	660.8
			110	646.9	660.8
			112	646.9	660.8
INJECTING 10 GAL./MIN.	6	1458	114	646.9	660.8
			116	684.9	685.7
			118	727.1	717.1
			120	739.8	743.4
			122	767.9	776.1
			124	811.6	805.0
			126	831.3	832.5
			128	843.9	857.4
			130	887.6	886.3
			132	915.7	917.8
STILL INJECTING, BUT PRES- SURE BEGAN TO FALL OFF.	7	1517	133	917.1	928.2
			134	917.1	925.6
			136	905.9	916.4
			138	904.5	915.1
MINIMUM PRESSURE WHILE STILL INJECTING	8	1523	139	904.5	915.1
			140	905.9	916.4
			142	907.3	919.1
			144	910.1	920.4
			146	911.5	920.4
			148	912.9	921.7
			150	914.3	923.0
			152	915.7	925.6
			154	917.1	926.9
			156	918.5	928.2
INJECTING 20 GAL./MIN.	9	1542	158	920.0	929.6
			160	935.4	937.4
			162	939.7	944.0
			164	942.5	946.6
			166	945.3	950.5
			168	948.1	951.8
			170	949.5	954.5
			172	949.5	955.8
INJECTING 30 GAL./MIN.	10	1557	173	949.5	957.1
			174	956.5	961.0
			176	965.0	967.6
			178	972.0	972.8
			180	974.8	976.8
			182	979.1	979.4
			184	981.9	983.3
			186	984.7	985.9
			188	987.5	987.2
			190	993.1	989.9
		II B-1567	192	997.4	992.5
			194	998.8	993.8



## FIELD REPORT #09090 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME</u> <u>OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #4097 N</u> <u>PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #4633 N</u> <u>PRESSURE (P.S.I.G.)</u>
			196	1003.0	995.1
			198	1004.4	996.4
			200	1005.8	997.7
			202	1008.6	999.0
			204	1008.6	1001.7
			206	1012.8	1004.3
			208	1015.7	1005.6
			210	1015.7	1008.2
			212	1017.1	1010.8
			214	1018.5	1012.2
			216	1019.9	1014.8
PRESSURE BEGAN TO FALL OFF	11	1642	218	1021.3	1016.1
			220	988.9	1003.5
			222	986.1	1001.7
			224	980.5	995.1
			226	974.8	991.2
			228	970.6	987.2
			230	966.4	983.3
			232	965.0	979.4
			234	962.2	975.4
			236	958.0	971.5
			238	955.1	968.9
			240	952.3	966.3
			242	949.5	962.3
			244	948.1	959.7
			246	945.3	958.4
			248	942.5	954.5
			250	941.1	951.8
CLOSED TOOL - PULLED					
PACKER LOOSE	12	1716	252	938.2	949.2
FINAL HYDROSTATIC	13	-		832.7	840.4

REMARKS: REPORTED TIMES WERE BASED ON TRAVEL OF CLOCK. THERE IS A SLIGHT VARIATION BETWEEN THE CLOCK TRAVEL AND REPORTED SURFACE LOG.

CAPACITY (P.S.I.G.):

2800#

2600#

DEPTH:

2370'

2397'

INSTRUMENT OPENING:

INSIDE

OUTSIDE







FIELD REPORT NO.

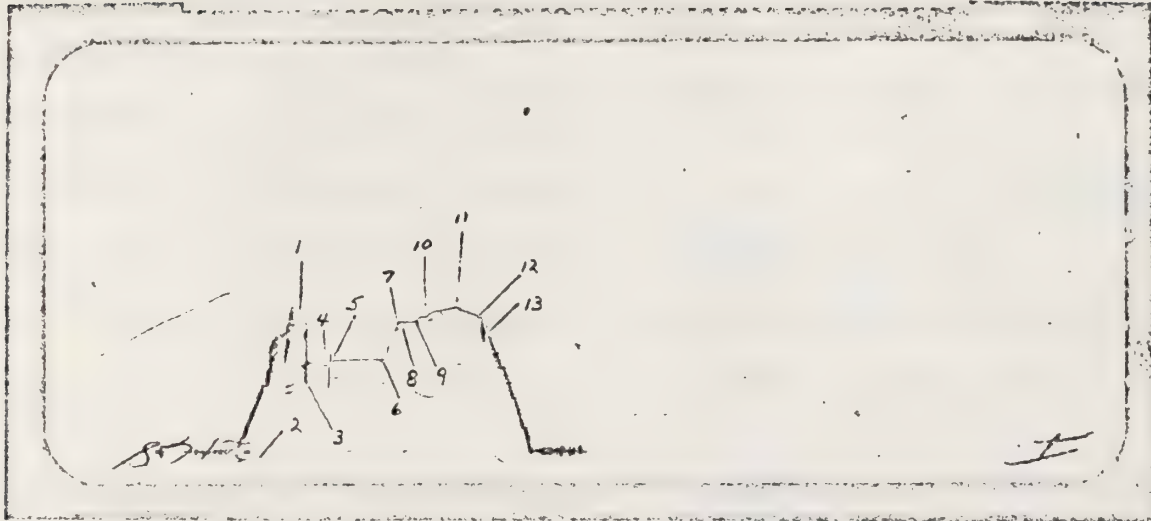
09090 C  
CAPACITY

2800#

RECORDER NO.

4097 N  
REPORTS REQUESTED

14+



FIELD REPORT NO.

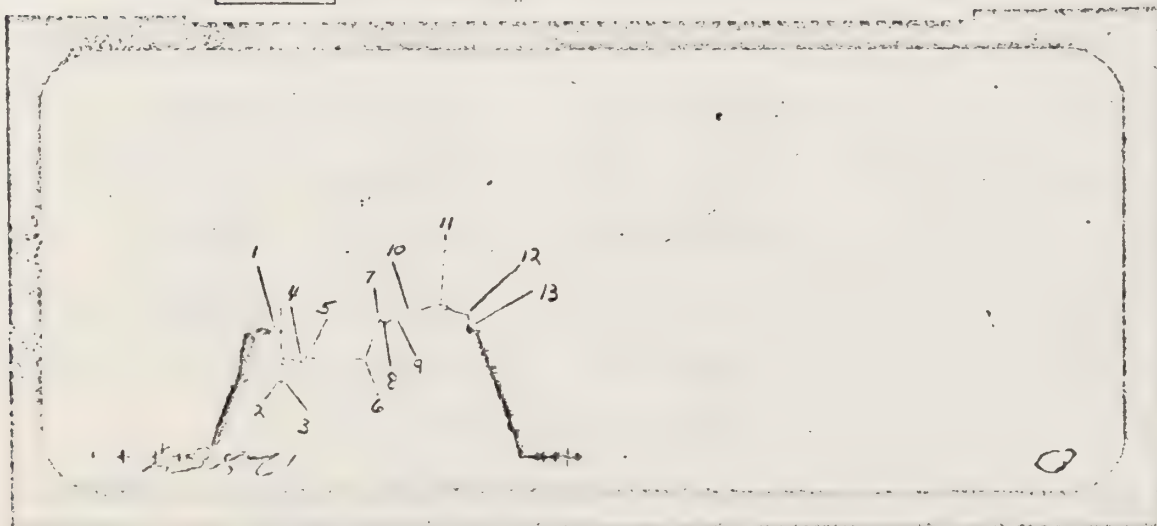
09090 C  
CAPACITY

2600#

RECORDER NO.

4633 N  
REPORTS REQUESTED

14+





## PRESSURE GAUGE DRILL STEM TEST SHEET

Job No. SPG-11210JJ Date JANUARY 11, 1975 Run #1 DST-37 Office CASPER  
 Customer ARCO ET AL Location Sorghum Gulch  
 State COLORADO County Lincoln Rio BLANCO  
 Well Sorghum Gulch No. 17 Field TRACT Cb

USE MILITARY TIME FOR ALL TIMES

	Time	Date	Time	Date	Time Charged
Arrive: Well <del>1000</del>	1. <u>0640 hrs.</u>	<u>1/11/75</u>	2. _____	_____	_____
Depart: Well <del>1000</del>	1. <u>2030 hrs.</u>	<u>1/11/75</u>	2. _____	_____	<u>13 hrs 50 min.</u>
Gauge Start in Hole	1. <u>0946 hrs.</u>	<u>1/11/75</u>	2. <u>1035 hrs.</u>	<u>1/11/75</u>	_____
Gauge Out of Hole	1. <u>1944 hrs.</u>	<u>1/11/75</u>	2. <u>1937 hrs.</u>	<u>1/11/75</u>	<u>9 hrs. 53 min.</u>
No. Trips	<u>1</u>	Miles	<u>90 miles</u>	Total Mileage	<u>90 miles</u>
-----					
Top Gauge #	<u>71</u>	Element #	<u>30951</u>	Range	<u>1000</u> Time Mode <u>1 min.</u>
Btm. Gauge #	<u>222</u>	Element #	<u>35990</u>	Range	<u>1400</u> Time Mode <u>1 min.</u>
Type Tool	Test Depth <u>2395' - 2460'</u> Zero Point <u>GROUND LEVEL</u>				
Packer Depth	<u>2395'</u>	Tail Pipe Depth	<u>2460'</u>	Top Gauge Depth	<u>2341'</u>
Bottom Hole Temp.	<u>—</u>	Atmos. Temp.	<u>—</u>	Bottom Gauge Depth	<u>2405'</u>

## TIME INFORMATION

Time Date

## PRESSURE INFORMATION

On Bottom	<u>1244</u>	<u>1/11/75</u>	Initial Hydrostatic Mud	_____
Packer Set	<u>1303</u>	<u>1/11/75</u>	Initial Draw Down	_____
Initial Open	<u>1304</u>	<u>1/11/75</u>	Initial Build-Up	_____
Initial Shut-In	<u>1308</u>	<u>1/11/75</u>	Final Flow	_____
Start Flow	<u>1338</u>	<u>1/11/75</u>	Final Build-Up	_____
Final Shut-In	<u>1716</u>	<u>1/11/75</u>	Final Hydrostatic Mud	_____
Packer Unseated	<u>1718</u>	<u>1/11/75</u>	Mud Weight	_____

## TIME OF SURFACE NULLS

Top Gauge 0935 1036 1037 Bottom Gauge 0946 0947 0948

Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT CB  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

THIS GAUGE NUMBER 71 WITH 1000 LB. ELEMENT WAS SET AT 2341 FT. IN ANNULUS.  
THE PACKER WAS SET AT 2395 FT.  
REFERENCE ELEVATION IS 7036 FT.  
INITIAL HYDROSTATIC WAS 814.21 PSI  
FINAL HYDROSTATIC WAS 821.33 PSI  
1500 FT. OF WATER PUT INTO PIPE AS PIPE WAS BEING RUN IN HOLE.

II B-1571

258 POINTS REPORTED THIS JOB

PAGE 1 OF 9 PAGES





JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 INIT.OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	814.067	13 04	JAN 11, 1975	INITIAL OPEN
.017	814.515	13 05	JAN 11, 1975	
.033	821.260	13 06	JAN 11, 1975	
.050	821.472	13 07	JAN 11, 1975	
.067	821.519	13 08	JAN 11, 1975	END OPEN

II B-1572

5 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	821.519	13 08	JAN 11, 1975	INITIAL CLOSE
.017	820.741	13 09	JAN 11, 1975	
.033	821.118	13 10	JAN 11, 1975	
.050	821.118	13 11	JAN 11, 1975	
.067	821.024	13 12	JAN 11, 1975	
.083	821.024	13 13	JAN 11, 1975	
.100	820.835	13 14	JAN 11, 1975	
.117	820.812	13 15	JAN 11, 1975	
.133	820.812	13 16	JAN 11, 1975	
.150	820.812	13 17	JAN 11, 1975	
.167	820.812	13 18	JAN 11, 1975	
.183	820.859	13 19	JAN 11, 1975	
.200	820.835	13 20	JAN 11, 1975	
.217	820.883	13 21	JAN 11, 1975	
.233	820.788	13 22	JAN 11, 1975	
.250	820.906	13 23	JAN 11, 1975	
.267	820.835	13 24	JAN 11, 1975	
.283	820.765	13 25	JAN 11, 1975	
.300	820.859	13 26	JAN 11, 1975	
.317	820.953	13 27	JAN 11, 1975	
.333	820.906	13 28	JAN 11, 1975	
.350	821.048	13 29	JAN 11, 1975	
.367	820.953	13 30	JAN 11, 1975	
.383	821.024	13 31	JAN 11, 1975	
.400	821.071	13 32	JAN 11, 1975	
.417	821.118	13 33	JAN 11, 1975	
.433	821.142	13 34	JAN 11, 1975	
.450	821.095	13 35	JAN 11, 1975	
.467	821.284	13 36	JAN 11, 1975	
.483	821.095	13 37	JAN 11, 1975	
.500	821.236	13 38	JAN 11, 1975	END SHUT-IN

II B-1573

31 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	821.236	13 38	JAN 11, 1975	START FLOW
.010	818.218	13 39	JAN 11, 1975	TOOL ACTION
.033	821.024	13 40	JAN 11, 1975	
.049	821.189	13 41	JAN 11, 1975	
.066	821.189	13 42	JAN 11, 1975	
.082	821.213	13 43	JAN 11, 1975	
.099	821.236	13 44	JAN 11, 1975	
.115	821.260	13 45	JAN 11, 1975	
.132	821.284	13 46	JAN 11, 1975	
.148	821.331	13 47	JAN 11, 1975	
.164	821.354	13 48	JAN 11, 1975	
.181	821.378	13 49	JAN 11, 1975	
.197	821.401	13 50	JAN 11, 1975	
.214	821.449	13 51	JAN 11, 1975	
.230	821.496	13 52	JAN 11, 1975	
.247	821.519	13 53	JAN 11, 1975	
.263	821.543	13 54	JAN 11, 1975	
.279	821.590	13 55	JAN 11, 1975	
.296	821.614	13 56	JAN 11, 1975	
.312	821.637	13 57	JAN 11, 1975	
.329	821.661	13 58	JAN 11, 1975	
.345	821.732	13 59	JAN 11, 1975	
.362	821.779	14 00	JAN 11, 1975	
.378	821.755	14 01	JAN 11, 1975	
.395	821.732	14 02	JAN 11, 1975	
.411	821.802	14 03	JAN 11, 1975	
.427	821.802	14 04	JAN 11, 1975	
.444	821.826	14 05	JAN 11, 1975	
.460	821.826	14 06	JAN 11, 1975	
.477	821.850	14 07	JAN 11, 1975	
.493	821.897	14 08	JAN 11, 1975	
.510	821.897	14 09	JAN 11, 1975	
.526	821.920	14 10	JAN 11, 1975	
.543	821.968	14 11	JAN 11, 1975	
.559	822.015	14 12	JAN 11, 1975	
.575	822.015	14 13	JAN 11, 1975	
.592	822.038	14 14	JAN 11, 1975	
.608	822.062	14 14	JAN 11, 1975	
.625	822.085	14 15	JAN 11, 1975	
.641	822.109	14 16	JAN 11, 1975	





JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.658	822,109	14 17	JAN 11,1975	
.674	822,156	14 18	JAN 11,1975	
.690	822,156	14 19	JAN 11,1975	
.707	822,180	14 20	JAN 11,1975	
.723	822,203	14 21	JAN 11,1975	
.740	822,251	14 22	JAN 11,1975	
.756	822,251	14 23	JAN 11,1975	
.773	822,274	14 24	JAN 11,1975	
.789	822,274	14 25	JAN 11,1975	
.806	822,298	14 26	JAN 11,1975	
.822	822,321	14 27	JAN 11,1975	
.838	822,321	14 28	JAN 11,1975	
.855	822,392	14 29	JAN 11,1975	
.871	822,392	14 30	JAN 11,1975	
.888	822,416	14 31	JAN 11,1975	
.904	822,416	14 32	JAN 11,1975	
.921	822,439	14 33	JAN 11,1975	
.937	822,463	14 34	JAN 11,1975	
.954	822,486	14 35	JAN 11,1975	
.970	822,510	14 36	JAN 11,1975	
.986	822,534	14 37	JAN 11,1975	
1,003	822,534	14 38	JAN 11,1975	
1,019	822,557	14 39	JAN 11,1975	END RECOVERY
1,036	822,604	14 40	JAN 11,1975	
1,052	822,628	14 41	JAN 11,1975	
1,069	822,628	14 42	JAN 11,1975	
1,085	822,651	14 43	JAN 11,1975	
1,101	822,675	14 44	JAN 11,1975	
1,118	822,675	14 45	JAN 11,1975	
1,134	822,699	14 46	JAN 11,1975	
1,151	822,746	14 47	JAN 11,1975	
1,167	822,769	14 48	JAN 11,1975	
1,184	822,769	14 49	JAN 11,1975	
1,200	822,769	14 50	JAN 11,1975	
1,217	822,817	14 51	JAN 11,1975	
1,233	822,840	14 52	JAN 11,1975	
1,249	822,840	14 53	JAN 11,1975	
1,266	822,887	14 54	JAN 11,1975	
1,282	822,887	14 55	JAN 11,1975	
1,299	822,911	14 56	JAN 11,1975	START DOWN DP



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,315	822,934	14 57	JAN 11,1975	WITH 10 GPM
1,332	822,934	14 58	JAN 11,1975	
1,348	822,958	14 59	JAN 11,1975	
1,365	822,982	15 00	JAN 11,1975	
1,381	822,982	15 01	JAN 11,1975	
1,397	823,005	15 02	JAN 11,1975	
1,414	823,052	15 03	JAN 11,1975	
1,430	823,052	15 04	JAN 11,1975	
1,447	823,076	15 05	JAN 11,1975	
1,463	823,100	15 06	JAN 11,1975	
1,480	823,100	15 07	JAN 11,1975	
1,496	823,100	15 08	JAN 11,1975	
1,512	823,100	15 09	JAN 11,1975	
1,529	823,123	15 10	JAN 11,1975	
1,545	823,147	15 11	JAN 11,1975	
1,562	823,170	15 12	JAN 11,1975	
1,578	823,170	15 13	JAN 11,1975	
1,595	823,218	15 14	JAN 11,1975	
1,611	823,241	15 15	JAN 11,1975	
1,628	823,265	15 16	JAN 11,1975	
1,644	823,288	15 17	JAN 11,1975	
1,660	823,312	15 18	JAN 11,1975	
1,677	823,335	15 19	JAN 11,1975	
1,693	823,359	15 20	JAN 11,1975	
1,710	823,359	15 21	JAN 11,1975	
1,726	823,383	15 22	JAN 11,1975	
1,743	823,430	15 23	JAN 11,1975	
1,759	823,430	15 24	JAN 11,1975	
1,776	823,453	15 25	JAN 11,1975	
1,792	823,477	15 26	JAN 11,1975	
1,808	823,501	15 27	JAN 11,1975	
1,825	823,548	15 27	JAN 11,1975	
1,841	823,548	15 28	JAN 11,1975	
1,858	823,571	15 29	JAN 11,1975	
1,874	823,595	15 30	JAN 11,1975	
1,891	823,618	15 31	JAN 11,1975	
1,907	823,642	15 32	JAN 11,1975	
1,923	823,666	15 33	JAN 11,1975	
1,940	823,689	15 34	JAN 11,1975	
1,956	823,713	15 35	JAN 11,1975	

II B-1576



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1.973	823.736	15 36	JAN 11, 1975	
1.989	823.760	15 37	JAN 11, 1975	
2.006	823.784	15 38	JAN 11, 1975	
2.022	823.807	15 39	JAN 11, 1975	
2.039	823.854	15 40	JAN 11, 1975	
2.055	823.854	15 41	JAN 11, 1975	DOWN DRILL
2.071	823.878	15 42	JAN 11, 1975	PIPE WITH
2.088	823.925	15 43	JAN 11, 1975	20 GPM
2.104	823.925	15 44	JAN 11, 1975	
2.121	823.925	15 45	JAN 11, 1975	
2.137	823.949	15 46	JAN 11, 1975	
2.154	823.972	15 47	JAN 11, 1975	
2.170	823.972	15 48	JAN 11, 1975	
2.187	824.019	15 49	JAN 11, 1975	
2.203	824.067	15 50	JAN 11, 1975	
2.219	824.090	15 51	JAN 11, 1975	
2.236	824.090	15 52	JAN 11, 1975	
2.252	824.137	15 53	JAN 11, 1975	
2.269	824.137	15 54	JAN 11, 1975	
2.285	824.184	15 55	JAN 11, 1975	
2.302	824.184	15 56	JAN 11, 1975	DOWN DP WITH
2.318	824.232	15 57	JAN 11, 1975	30 GPM
2.334	824.255	15 58	JAN 11, 1975	
2.351	824.302	15 59	JAN 11, 1975	
2.367	824.326	16 00	JAN 11, 1975	
2.384	824.326	16 01	JAN 11, 1975	
2.400	824.373	16 02	JAN 11, 1975	
2.417	824.373	16 03	JAN 11, 1975	
2.433	824.397	16 04	JAN 11, 1975	
2.450	824.420	16 05	JAN 11, 1975	
2.466	824.468	16 06	JAN 11, 1975	
2.482	824.468	16 07	JAN 11, 1975	
2.499	824.491	16 08	JAN 11, 1975	
2.515	824.515	16 09	JAN 11, 1975	
2.532	824.562	16 10	JAN 11, 1975	
2.548	824.609	16 11	JAN 11, 1975	DOWN DP WITH
2.565	824.633	16 12	JAN 11, 1975	40 GPM
2.581	824.656	16 13	JAN 11, 1975	
2.598	824.703	16 14	JAN 11, 1975	
2.614	824.727	16 15	JAN 11, 1975	

IT B-1577





JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,630	824,751	16 16	JAN 11,1975	
2,647	824,751	16 17	JAN 11,1975	
2,663	824,633	16 18	JAN 11,1975	
2,680	824,845	16 19	JAN 11,1975	
2,696	824,892	16 20	JAN 11,1975	
2,713	824,916	16 21	JAN 11,1975	
2,729	824,986	16 22	JAN 11,1975	
2,745	825,010	16 23	JAN 11,1975	
2,762	825,034	16 24	JAN 11,1975	
2,778	825,104	16 25	JAN 11,1975	
2,795	825,151	16 26	JAN 11,1975	DOWN DP WITH
2,811	825,222	16 27	JAN 11,1975	60 GPM
2,828	825,246	16 28	JAN 11,1975	OVERFLOW START
2,844	825,364	16 29	JAN 11,1975	
2,861	825,434	16 30	JAN 11,1975	
2,877	825,552	16 31	JAN 11,1975	
2,893	825,694	16 32	JAN 11,1975	
2,910	825,741	16 33	JAN 11,1975	
2,926	825,812	16 34	JAN 11,1975	
2,943	826,048	16 35	JAN 11,1975	
2,959	826,189	16 36	JAN 11,1975	
2,976	826,378	16 37	JAN 11,1975	
2,992	826,590	16 38	JAN 11,1975	
3,009	826,732	16 39	JAN 11,1975	
3,025	826,850	16 39	JAN 11,1975	
3,041	826,944	16 40	JAN 11,1975	
3,058	827,015	16 41	JAN 11,1975	START DECLINE
3,074	827,085	16 42	JAN 11,1975	
3,091	827,109	16 43	JAN 11,1975	
3,107	827,180	16 44	JAN 11,1975	
3,124	827,227	16 45	JAN 11,1975	
3,140	827,203	16 46	JAN 11,1975	
3,156	827,109	16 47	JAN 11,1975	
3,173	827,038	16 48	JAN 11,1975	
3,189	826,968	16 49	JAN 11,1975	
3,206	826,873	16 50	JAN 11,1975	
3,222	826,826	16 51	JAN 11,1975	
3,239	826,755	16 52	JAN 11,1975	
3,255	826,732	16 53	JAN 11,1975	
3,272	826,637	16 54	JAN 11,1975	

II B-1578



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
71 DST NO.37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,288	826,567	16 55	JAN 11,1975	
3,304	826,519	16 56	JAN 11,1975	
3,321	826,496	16 57	JAN 11,1975	
3,337	826,425	16 58	JAN 11,1975	
3,354	826,378	16 59	JAN 11,1975	
3,370	826,354	17 00	JAN 11,1975	
3,387	826,331	17 01	JAN 11,1975	
3,403	826,307	17 02	JAN 11,1975	
3,420	826,284	17 03	JAN 11,1975	
3,436	826,236	17 04	JAN 11,1975	
3,452	826,236	17 05	JAN 11,1975	
3,469	826,213	17 06	JAN 11,1975	
3,485	826,189	17 07	JAN 11,1975	
3,502	826,189	17 08	JAN 11,1975	
3,518	826,166	17 09	JAN 11,1975	
3,535	826,142	17 10	JAN 11,1975	
3,551	826,166	17 11	JAN 11,1975	END DECLINE
3,567	826,166	17 12	JAN 11,1975	
3,584	826,142	17 13	JAN 11,1975	
3,600	826,118	17 14	JAN 11,1975	
3,617	826,118	17 15	JAN 11,1975	
3,633	826,166	17 16	JAN 11,1975	END OF TEST

II B-1579

222 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      SORGHUM GULCH TRACT C-B  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

THIS GAUGE NUMBER 222 WITH 1400 LB ELEMENT INSIDE DRILL PIPE  
AT 2405 FT, AND THE PACKER WAS SET AT 2395 FT.  
REFERENCE ELEVATION IS 7036 FT  
INITIAL HYDROSTATIC WAS 821.58 PSI  
FINAL HYDROSTATIC WAS 848.87 PSI  
1500 FT, OF WATER PUT INTO PIPE AS PIPE WAS BEING RUN IN HOLE

IT B-1580

260 POINTS REPORTED THIS JOB

PAGE 1 OF 9 PAGES





JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 INIT, OPEN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	938,933	13 04	JAN 11, 1975	INITIAL OPEN
,033	525,319	13 06	JAN 11, 1975	
,050	516,651	13 07	JAN 11, 1975	
,067	509,483	13 08	JAN 11, 1975	END OPEN

II B-1581

4 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 SHUT IN

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	509.484	13 08	JAN 11, 1975	INITIAL CLOSE
.017	747.506	13 09	JAN 11, 1975	
.034	729.254	13 10	JAN 11, 1975	
.052	727.526	13 11	JAN 11, 1975	
.069	726.661	13 12	JAN 11, 1975	
.086	726.029	13 13	JAN 11, 1975	
.103	725.398	13 14	JAN 11, 1975	
.121	724.068	13 15	JAN 11, 1975	
.138	722.439	13 16	JAN 11, 1975	
.155	720.644	13 17	JAN 11, 1975	
.172	719.281	13 18	JAN 11, 1975	
.190	718.084	13 19	JAN 11, 1975	
.207	716.821	13 20	JAN 11, 1975	
.224	715.424	13 21	JAN 11, 1975	
.241	714.194	13 22	JAN 11, 1975	
.259	713.064	13 24	JAN 11, 1975	
.276	711.933	13 25	JAN 11, 1975	
.293	710.637	13 26	JAN 11, 1975	
.310	709.673	13 27	JAN 11, 1975	
.328	708.775	13 28	JAN 11, 1975	
.345	707.778	13 29	JAN 11, 1975	
.362	706.880	13 30	JAN 11, 1975	
.379	706.016	13 31	JAN 11, 1975	
.397	705.151	13 32	JAN 11, 1975	
.414	704.354	13 33	JAN 11, 1975	
.431	703.822	13 34	JAN 11, 1975	
.448	702.857	13 35	JAN 11, 1975	
.466	701.960	13 36	JAN 11, 1975	
.483	701.328	13 37	JAN 11, 1975	
.500	700.364	13 38	JAN 11, 1975	END CLOSE

II B-1582

30 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	700.364	13 38	JAN 11, 1975	FINAL OPEN
.016	466.710	13 39	JAN 11, 1975	
.032	710.072	13 40	JAN 11, 1975	
.048	657.743	13 41	JAN 11, 1975	
.065	666.786	13 42	JAN 11, 1975	
.081	666.853	13 43	JAN 11, 1975	
.097	666.853	13 44	JAN 11, 1975	
.113	666.819	13 45	JAN 11, 1975	
.129	666.819	13 46	JAN 11, 1975	
.145	666.819	13 47	JAN 11, 1975	
.161	666.819	13 48	JAN 11, 1975	
.178	666.886	13 49	JAN 11, 1975	
.194	666.853	13 50	JAN 11, 1975	
.210	666.819	13 51	JAN 11, 1975	
.226	666.819	13 52	JAN 11, 1975	
.242	666.819	13 53	JAN 11, 1975	
.258	666.819	13 54	JAN 11, 1975	
.275	666.853	13 54	JAN 11, 1975	
.291	666.886	13 55	JAN 11, 1975	
.307	666.819	13 56	JAN 11, 1975	
.323	666.853	13 57	JAN 11, 1975	
.339	666.819	13 58	JAN 11, 1975	
.355	666.819	13 59	JAN 11, 1975	
.371	666.786	14 00	JAN 11, 1975	
.388	666.786	14 01	JAN 11, 1975	
.404	666.753	14 02	JAN 11, 1975	
.420	666.819	14 03	JAN 11, 1975	
.436	666.886	14 04	JAN 11, 1975	
.452	666.819	14 05	JAN 11, 1975	
.468	666.819	14 06	JAN 11, 1975	
.484	666.819	14 07	JAN 11, 1975	
.501	666.853	14 08	JAN 11, 1975	
.517	666.786	14 09	JAN 11, 1975	
.533	666.853	14 10	JAN 11, 1975	
.549	666.819	14 11	JAN 11, 1975	
.565	666.753	14 12	JAN 11, 1975	
.581	666.853	14 13	JAN 11, 1975	
.597	666.653	14 14	JAN 11, 1975	
.614	666.753	14 15	JAN 11, 1975	
.630	666.786	14 16	JAN 11, 1975	

II B-1583





JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
.646	666.853	14 17	JAN 11, 1975	
.662	666.753	14 18	JAN 11, 1975	
.678	666.786	14 19	JAN 11, 1975	
.694	666.786	14 20	JAN 11, 1975	
.711	666.819	14 21	JAN 11, 1975	
.727	666.720	14 22	JAN 11, 1975	
.743	666.819	14 23	JAN 11, 1975	
.759	666.720	14 24	JAN 11, 1975	
.775	666.753	14 25	JAN 11, 1975	
.791	666.620	14 25	JAN 11, 1975	
.807	666.786	14 26	JAN 11, 1975	
.824	666.786	14 27	JAN 11, 1975	
.840	666.819	14 28	JAN 11, 1975	
.856	666.720	14 29	JAN 11, 1975	
.872	666.720	14 30	JAN 11, 1975	
.888	666.786	14 31	JAN 11, 1975	
.904	666.753	14 32	JAN 11, 1975	
.920	666.753	14 33	JAN 11, 1975	
.937	666.620	14 34	JAN 11, 1975	
.953	666.720	14 35	JAN 11, 1975	
.969	666.720	14 36	JAN 11, 1975	
.985	666.786	14 37	JAN 11, 1975	
1.001	666.687	14 38	JAN 11, 1975	
1.017	666.786	14 39	JAN 11, 1975	
1.033	666.753	14 40	JAN 11, 1975	
1.050	666.653	14 41	JAN 11, 1975	
1.066	666.720	14 42	JAN 11, 1975	
1.082	666.753	14 43	JAN 11, 1975	
1.098	666.819	14 44	JAN 11, 1975	
1.114	666.687	14 45	JAN 11, 1975	
1.130	666.687	14 46	JAN 11, 1975	
1.147	666.786	14 47	JAN 11, 1975	
1.163	666.786	14 48	JAN 11, 1975	
1.179	666.753	14 49	JAN 11, 1975	
1.195	666.687	14 50	JAN 11, 1975	
1.211	666.786	14 51	JAN 11, 1975	
1.227	666.720	14 52	JAN 11, 1975	
1.243	666.653	14 53	JAN 11, 1975	
1.260	666.653	14 54	JAN 11, 1975	
1.276	666.786	14 55	JAN 11, 1975	

II B-1584



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,292	666,786	14 56	JAN 11,1975	
1,308	666,687	14 56	JAN 11,1975	
1,324	666,753	14 57	JAN 11,1975	10 GPM INSIDE
1,340	666,653	14 58	JAN 11,1975	DRILL PIPE
1,356	666,653	14 59	JAN 11,1975	
1,373	666,853	15 00	JAN 11,1975	
1,389	667,119	15 01	JAN 11,1975	
1,405	681,514	15 02	JAN 11,1975	
1,421	696,508	15 03	JAN 11,1975	
1,437	710,803	15 04	JAN 11,1975	
1,453	724,633	15 05	JAN 11,1975	
1,469	742,286	15 06	JAN 11,1975	
1,486	758,543	15 07	JAN 11,1975	
1,502	774,402	15 08	JAN 11,1975	
1,518	789,628	15 09	JAN 11,1975	
1,534	802,594	15 10	JAN 11,1975	
1,550	818,984	15 11	JAN 11,1975	
1,566	837,169	15 12	JAN 11,1975	
1,583	848,505	15 13	JAN 11,1975	
1,599	823,239	15 14	JAN 11,1975	
1,615	835,473	15 15	JAN 11,1975	
1,631	887,203	15 16	JAN 11,1975	
1,647	902,562	15 17	JAN 11,1975	
1,663	932,483	15 18	JAN 11,1975	
1,679	932,417	15 19	JAN 11,1975	
1,696	924,770	15 20	JAN 11,1975	
1,712	921,911	15 21	JAN 11,1975	
1,728	921,446	15 22	JAN 11,1975	
1,744	921,080	15 23	JAN 11,1975	
1,760	920,681	15 24	JAN 11,1975	
1,776	921,180	15 25	JAN 11,1975	
1,792	922,609	15 26	JAN 11,1975	
1,809	924,205	15 27	JAN 11,1975	
1,825	925,169	15 27	JAN 11,1975	
1,841	925,901	15 28	JAN 11,1975	
1,857	926,466	15 29	JAN 11,1975	
1,873	926,832	15 30	JAN 11,1975	
1,889	926,931	15 31	JAN 11,1975	
1,905	927,496	15 32	JAN 11,1975	
1,922	928,195	15 33	JAN 11,1975	

II B-1585

PAGE 6



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
1,938	929,258	15 34	JAN 11,1975	
1,954	930,422	15 35	JAN 11,1975	
1,970	931,519	15 36	JAN 11,1975	
1,986	932,650	15 37	JAN 11,1975	
2,002	933,281	15 38	JAN 11,1975	
2,019	933,514	15 39	JAN 11,1975	
2,035	933,913	15 40	JAN 11,1975	20 GPM INSIDE
2,051	934,345	15 41	JAN 11,1975	DRILL PIPE
2,067	934,744	15 42	JAN 11,1975	
2,083	935,675	15 43	JAN 11,1975	
2,099	940,362	15 44	JAN 11,1975	
2,115	942,956	15 45	JAN 11,1975	
2,132	945,216	15 46	JAN 11,1975	
2,148	947,809	15 47	JAN 11,1975	
2,164	949,837	15 48	JAN 11,1975	
2,180	952,198	15 49	JAN 11,1975	
2,196	954,126	15 50	JAN 11,1975	
2,212	955,290	15 51	JAN 11,1975	
2,228	956,420	15 52	JAN 11,1975	
2,245	957,584	15 53	JAN 11,1975	
2,261	958,481	15 54	JAN 11,1975	
2,277	959,412	15 55	JAN 11,1975	
2,293	960,343	15 56	JAN 11,1975	30 GPM INSIDE
2,309	961,307	15 57	JAN 11,1975	DRILL PIPE
2,325	962,105	15 58	JAN 11,1975	
2,341	963,102	15 58	JAN 11,1975	
2,358	965,695	15 59	JAN 11,1975	
2,374	969,751	16 00	JAN 11,1975	
2,390	973,309	16 01	JAN 11,1975	
2,406	976,168	16 02	JAN 11,1975	
2,422	978,728	16 03	JAN 11,1975	
2,438	980,656	16 04	JAN 11,1975	
2,454	982,351	16 05	JAN 11,1975	
2,471	984,147	16 06	JAN 11,1975	
2,487	985,709	16 07	JAN 11,1975	
2,503	987,238	16 08	JAN 11,1975	
2,519	988,568	16 09	JAN 11,1975	
2,535	989,965	16 10	JAN 11,1975	
2,551	991,062	16 11	JAN 11,1975	40 GPM INSIDE
2,568	992,292	16 12	JAN 11,1975	DRILL PIPE

II B-1586





JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,584	993,056	16 13	JAN 11,1975	
2,600	993,755	16 14	JAN 11,1975	
2,616	995,217	16 15	JAN 11,1975	
2,632	996,647	16 16	JAN 11,1975	
2,648	997,544	16 17	JAN 11,1975	
2,664	998,043	16 18	JAN 11,1975	
2,681	998,575	16 19	JAN 11,1975	
2,697	999,240	16 20	JAN 11,1975	
2,713	999,971	16 21	JAN 11,1975	
2,729	1000,470	16 22	JAN 11,1975	
2,745	1001,068	16 23	JAN 11,1975	
2,761	1001,667	16 24	JAN 11,1975	
2,777	1002,398	16 25	JAN 11,1975	
2,794	1003,296	16 26	JAN 11,1975	60 GPM INSIDE
2,810	1004,260	16 27	JAN 11,1975	DRILL PIPE
2,826	1005,490	16 28	JAN 11,1975	OVERFLOW START
2,842	1006,886	16 29	JAN 11,1975	
2,858	1007,252	16 29	JAN 11,1975	
2,874	1008,316	16 30	JAN 11,1975	
2,890	1009,812	16 31	JAN 11,1975	
2,907	1011,142	16 32	JAN 11,1975	
2,923	1012,272	16 33	JAN 11,1975	
2,939	1013,070	16 34	JAN 11,1975	
2,955	1014,134	16 35	JAN 11,1975	
2,971	1015,364	16 36	JAN 11,1975	
2,987	1016,328	16 37	JAN 11,1975	
3,004	1017,292	16 38	JAN 11,1975	
3,020	1018,223	16 39	JAN 11,1975	
3,036	1018,988	16 40	JAN 11,1975	
3,052	1019,786	16 41	JAN 11,1975	START DECLINE
3,068	1020,417	16 42	JAN 11,1975	
3,084	1020,883	16 43	JAN 11,1975	
3,100	1019,121	16 44	JAN 11,1975	
3,117	1014,533	16 45	JAN 11,1975	
3,133	1010,710	16 46	JAN 11,1975	
3,149	1007,618	16 47	JAN 11,1975	
3,165	1004,792	16 48	JAN 11,1975	
3,181	1002,132	16 49	JAN 11,1975	
3,197	999,705	16 50	JAN 11,1975	
3,213	997,279	16 51	JAN 11,1975	

II B-1587



JOB NUMBER  
SPG-11210-JJ

DATE OF JOB  
JANUARY 11, 1975

GAUGE/RUN NUMBER  
222 DST-37 FINAL FLOW

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
3,230	995,084	16 52	JAN 11, 1975	
3,246	992,957	16 53	JAN 11, 1975	
3,262	990,962	16 54	JAN 11, 1975	
3,278	988,934	16 55	JAN 11, 1975	
3,294	987,039	16 56	JAN 11, 1975	
3,310	985,244	16 57	JAN 11, 1975	
3,326	983,515	16 58	JAN 11, 1975	
3,343	981,786	16 59	JAN 11, 1975	
3,359	980,523	17 00	JAN 11, 1975	
3,375	978,960	17 00	JAN 11, 1975	
3,391	977,498	17 01	JAN 11, 1975	
3,407	975,968	17 02	JAN 11, 1975	
3,423	974,805	17 03	JAN 11, 1975	
3,440	973,309	17 04	JAN 11, 1975	
3,456	971,879	17 05	JAN 11, 1975	
3,472	970,516	17 06	JAN 11, 1975	
3,488	969,020	17 07	JAN 11, 1975	
3,504	967,723	17 08	JAN 11, 1975	
3,520	966,360	17 09	JAN 11, 1975	
3,536	964,997	17 10	JAN 11, 1975	
3,553	963,767	17 11	JAN 11, 1975	END DECLINE
3,569	962,404	17 12	JAN 11, 1975	
3,585	961,174	17 13	JAN 11, 1975	
3,601	959,944	17 14	JAN 11, 1975	
3,617	958,714	17 15	JAN 11, 1975	
3,633	957,484	17 16	JAN 11, 1975	END TEST

II B-1588

226 POINTS REPORTED THIS RUN



MP1 Series 1 - SG-17





MULTI-PACKER TEST SERIES NO. 1

SG-17



JOHNSTON

Stimulating

technical  
report

RECEIVED

DEC 16 1974

A. J. ROGERS



**SURFACE INFORMATION**

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
RE-CYCLED TOOL (12-7-74)	1926	-	-
OPENED TOOL	1935	-	-
CLOSED FOR INITIAL SHUT-IN	1936	-	-
FINISHED SHUT-IN	2006	-	-
RE-OPENED TOOL	2016	-	-
CLOSED FOR FINAL SHUT-IN	2304	-	-
PULLED PACKER LOOSE	2331	-	-
RE-SET PACKERS (12-8-74)	0012	-	-
RE-OPENED TOOL	0024	-	-
CLOSED FOR INITIAL SHUT-IN	0035	-	-
FINISHED SHUT-IN	0108	-	-
RE-OPENED TOOL	0119	-	-
CLOSED FOR FINAL SHUT-IN	0607	-	-
PULLED PACKERS LOOSE	0621	-	-
RE-SET PACKERS	0646	-	-
RE-OPENED TOOL	0702	-	-
CLOSED FOR INITIAL SHUT-IN	0713	-	-
RE-OPENED TOOL	0743	-	-
CLOSED FOR FINAL SHUT-IN	1131	-	-
PULLED PACKERS LOOSE	1145	-	-
RE-SET PACKERS	1241	-	-
RE-OPENED TOOL	1258	-	-
CLOSED FOR INITIAL SHUT-IN	1312	-	-
RE-OPENED TOOL	1342	-	-
CLOSED FOR FINAL SHUT-IN	-	-	-
PULLED PACKERS LOOSE	-	-	-

Cushion Type	Amount	Pressure	Bottom Choke
-	-	-	Size 3/4"

**MUD DATA**

Mud Type	WATER - FOAM	Wt.	-
Viscosity	-	Water Loss	- C.C.
Resist: of Mud	- @ - °F;	of Filtrate	- @ - °F
Chloride Content	-		PPM

**EQUIPMENT & HOLE DATA**

Type Test	M. F. E. - P. C. T.
Formation Tested	-
Elevation	7036 Ft.
Net Productive Interval	- Ft.
Estimated Porosity	- %
All Depths Measured From	GROUND LEVEL
Total Depth	1470 Ft.
Main Hole/Casing Size	6 3/4"
Rat Hole/Liner Size	-
Drill Collar Length	298' I.D. -
Drill Pipe Length	- I.D. -
Packer Depth(s)	- Ft.

**MULTI-FLOW EVALUATOR  
FLUID SAMPLE DATA**

Sampler Pressure	- P.S.I.G. at Surface
Recovery: Cu. Ft. Gas	-
cc. Oil	-
cc. Water	-
cc. Mud	-
Tot. Liquid cc.	-
Gravity	- °API @ - °F.
Gas/Oil Ratio	- cu. ft./bbl.

**RESISTIVITY****CHLORIDE  
CONTENT**

Recovery Water	- @ - °F. - ppm
Recovery Mud	- @ - °F.
Recovery Mud Filtrate	- @ - °F. - ppm
Mud Pit Sample	- @ - °F.
Mud Pit Sample Filtrate	- @ - °F. - ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
-						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: PRESSURE INSTRUMENTS ON THIS TEST WERE RUN BY SPERRY - SUN.

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC-RICHFIELD COMPANY

Well FEDERAL S-G #17

Test Interval - II B-1591

Location 436' FWL &amp; 181' FSL SEC. 16-35-J0W

Test # MPT #1-4

Date 12-7-74

County RIO BLANCO

State

COLORADO

Technician TAYLOR (VERNAL)

Test Approved By MR. JERRY L. BUSSELL

Field Report No. 09106 C

No. Reports Requested 15 147





SPERRY-SUN



→ JRM

POST OFFICE BOX 36363 HOUSTON, TEXAS 77036 (713) 494-3021

J. A. Fouché  
President

December 16, 1974

RECEIVED

DEC 20 1974

A. L. ROBERTS

Mr. Frederick R. Scheerer  
Atlantic-Richfield Company  
1500 Security Life Building  
Denver, Colorado 80202

Dear Sir:

Enclosed is the original of our Precision Pressure Gauge Job SPG-11210-R performed on your Federal Sorghum Gulch, Well No. 17, Tract C-b, Sorghum Gulch Field, Piceance Creek Area, Rio Blanco County, Colorado on December 8, 1974. This was a multiple packer test with four different zones being tested:

<u>Gauge</u>	<u>Zone #1</u> <u>MPT #1</u>	<u>Zone #2</u> <u>MPT #2</u>	<u>Zone #3</u> <u>MPT #3</u>	<u>Zone #4</u> <u>MPT #4</u>
42	1338	1215	1122	1082
168	1385	1262	1168	1128
88	1401	1278	1184	1143
209	1418	1295	1201	1161

Also enclosed are the charts for gauge numbers 42, 168, 88 and 209 with Field Data Sheets.

Distribution is being made according to the attached mailing list.

Thank you for this opportunity to be of service.

Very truly yours,

*Carl Kisinger, Jr.*

Carl Kisinger, Jr.  
Manager, Pressure Services

CK:pm  
Enclosures



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT  
GAUGE DEPTH IS 1338 FT. OUTSIDE D.P.  
INSIDE ANNULUS  
TEST INTERVAL IS FROM SURFACE TO  
1372 FT. (PACKER DEPTH) INSIDE ANNULUS  
GROUND LEVEL REFERENCE IS 7036 FT.  
INITIAL HYDROSTATIC IS 367.32 PSI

II B-1593

66 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	368,009	19 36	DEC 07, 1974	MPT NO. 1 OPEN

II B-1594

1 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	368,009	19 36	DEC 07, 1974	SHUT IN DEPTH 1338 FEET
,063	367,232	19 40	DEC 07, 1974	
,127	367,575	19 44	DEC 07, 1974	
,190	367,095	19 47	DEC 07, 1974	
,253	366,432	19 51	DEC 07, 1974	
,317	367,461	19 55	DEC 07, 1974	
,380	367,643	19 59	DEC 07, 1974	
,443	367,689	20 03	DEC 07, 1974	
,507	367,826	20 06	DEC 07, 1974	
,570	367,826	20 10	DEC 07, 1974	
,633	368,009	20 14	DEC 07, 1974	END SHUT-IN

11 B-1595

11 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 1

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	368,009	20 14	DEC 07,1974	FINAL OPEN
,063	367,712	20 18	DEC 07,1974	
,127	367,918	20 22	DEC 07,1974	
,190	368,123	20 25	DEC 07,1974	
,253	368,146	20 29	DEC 07,1974	
,317	368,169	20 33	DEC 07,1974	
,380	368,238	20 37	DEC 07,1974	
,443	368,260	20 41	DEC 07,1974	
,507	368,306	20 44	DEC 07,1974	
,570	368,329	20 48	DEC 07,1974	
,633	368,352	20 52	DEC 07,1974	
,697	368,397	20 56	DEC 07,1974	
,760	368,397	21 00	DEC 07,1974	
,823	368,443	21 03	DEC 07,1974	
,887	368,489	21 07	DEC 07,1974	
,950	368,489	21 11	DEC 07,1974	
1,013	368,535	21 15	DEC 07,1974	4,6 GPM INSIDE
1,077	368,557	21 19	DEC 07,1974	DRILL PIPE
1,140	368,557	21 22	DEC 07,1974	
1,203	368,603	21 26	DEC 07,1974	
1,267	368,626	21 30	DEC 07,1974	
1,330	368,672	21 34	DEC 07,1974	DECLINE
1,393	368,695	21 38	DEC 07,1974	10 GPM INSIDE
1,457	368,695	21 41	DEC 07,1974	DRILL PIPE
1,520	368,740	21 45	DEC 07,1974	
1,584	368,786	21 49	DEC 07,1974	
1,647	368,809	21 53	DEC 07,1974	
1,710	368,832	21 57	DEC 07,1974	
1,774	368,877	22 00	DEC 07,1974	DECLINE
1,837	368,900	22 04	DEC 07,1974	
1,900	368,877	22 08	DEC 07,1974	
1,964	368,900	22 12	DEC 07,1974	
2,027	368,900	22 16	DEC 07,1974	
2,090	368,900	22 19	DEC 07,1974	30 GPM ANNULUS
2,154	370,820	22 23	DEC 07,1974	
2,217	375,458	22 27	DEC 07,1974	
2,280	378,474	22 31	DEC 07,1974	
2,344	380,737	22 35	DEC 07,1974	60 GPM ANNULUS
2,407	384,667	22 38	DEC 07,1974	
2,470	388,643	22 42	DEC 07,1974	

11 B-1596



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 1

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,534	393,099	22 46	DEC 07,1974	
2,597	399,817	22 50	DEC 07,1974	
2,660	391,156	22 54	DEC 07,1974	
2,724	383,707	22 57	DEC 07,1974	
2,787	379,297	23 01	DEC 07,1974	
2,850	373,493	23 05	DEC 07,1974	
2,914	372,442	23 09	DEC 07,1974	
2,977	371,734	23 13	DEC 07,1974	
3,040	371,231	23 16	DEC 07,1974	
3,104	370,934	23 20	DEC 07,1974	
3,167	370,660	23 24	DEC 07,1974	END FLOW

II B-1597

51 POINTS REPORTED THIS RUN

PAGE 5



JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 1

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	370.660	23 24	DEC 07, 1974	FINAL SHUT-IN
.061	363.736	23 28	DEC 07, 1974	UNSEAT PACKER
.122	362.228	23 31	DEC 07, 1974	END MPT NO. 1

II B-1598

3 POINTS REPORTED THIS RUN

PAGE 6





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-8    SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT  
GAUGE DEPTH IS 1215 FT. OUTSIDE D. P.,  
INSIDE ANNULUS  
TEST INTERVAL IS FROM SURFACE TO  
1249 (PACKER DEPTH ) INSIDE ANNULUS  
GROUND LEVEL REFERENCE IS 7036 FT.

IT B-1599

93 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	312,842	00 24	DEC 08, 1974	MPT NO. 2 OPEN
.092	313,801	00 30	DEC 08, 1974	TEST DEPTH
.183	314,807	00 35	DEC 08, 1974	1215 FT.

II B-1600

3 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	314.807	00 35	DEC 08, 1974	SHUT IN
.067	315.355	00 39	DEC 08, 1974	
.133	315.926	00 43	DEC 08, 1974	
.200	316.063	00 47	DEC 08, 1974	
.267	316.086	00 51	DEC 08, 1974	
.333	314.921	00 55	DEC 08, 1974	
.400	315.378	00 59	DEC 08, 1974	
.467	315.744	01 03	DEC 08, 1974	
.533	315.446	01 07	DEC 08, 1974	
.600	315.424	01 11	DEC 08, 1974	
.667	315.446	01 15	DEC 08, 1974	
.733	315.172	01 19	DEC 08, 1974	END SHUT IN

11 B-1601

12 POINTS REPORTED THIS RUN

PAGE 3





JOB NUMBER  
SPG-11210-R

DATE OF JCB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO, 2

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	315.172	01 19	DEC 08, 1974	FINAL OPEN
.066	315.606	01 23	DEC 08, 1974	
.132	315.835	01 27	DEC 08, 1974	
.197	315.858	01 31	DEC 08, 1974	
.263	315.903	01 35	DEC 08, 1974	
.329	315.949	01 39	DEC 08, 1974	
.395	315.995	01 43	DEC 08, 1974	
.460	316.018	01 47	DEC 08, 1974	
.526	316.018	01 51	DEC 08, 1974	
.592	316.041	01 55	DEC 08, 1974	
.658	316.041	01 58	DEC 08, 1974	
.723	316.063	02 02	DEC 08, 1974	
.789	316.086	02 06	DEC 08, 1974	
.855	316.109	02 10	DEC 08, 1974	
.921	316.132	02 14	DEC 08, 1974	
.986	316.132	02 18	DEC 08, 1974	
1.052	316.155	02 22	DEC 08, 1974	
1.118	316.155	02 26	DEC 08, 1974	
1.184	316.178	02 30	DEC 08, 1974	
1.249	316.178	02 34	DEC 08, 1974	
1.315	316.201	02 38	DEC 08, 1974	30 GPM ANNULUS
1.381	316.201	02 42	DEC 08, 1974	
1.447	316.246	02 46	DEC 08, 1974	
1.512	316.223	02 50	DEC 08, 1974	
1.578	316.269	02 54	DEC 08, 1974	
1.644	316.246	02 58	DEC 08, 1974	
1.710	316.292	03 02	DEC 08, 1974	
1.775	316.292	03 06	DEC 08, 1974	
1.841	316.292	03 09	DEC 08, 1974	
1.907	316.315	03 13	DEC 08, 1974	
1.973	316.338	03 17	DEC 08, 1974	
2.038	316.338	03 21	DEC 08, 1974	
2.104	316.360	03 25	DEC 08, 1974	
2.170	316.360	03 29	DEC 08, 1974	
2.236	316.360	03 33	DEC 08, 1974	
2.301	316.383	03 37	DEC 08, 1974	
2.367	316.383	03 41	DEC 08, 1974	
2.433	316.383	03 45	DEC 08, 1974	
2.499	316.452	03 49	DEC 08, 1974	
2.564	316.475	03 53	DEC 08, 1974	

II B-1602



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 2

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,630	322,210	03 57	DEC 08,1974	
2,696	325,341	04 01	DEC 08,1974	
2,762	327,397	04 05	DEC 08,1974	
2,827	333,727	04 09	DEC 08,1974	60 GPM ANNULUS
2,893	347,186	04 13	DEC 08,1974	
2,959	362,616	04 17	DEC 08,1974	
3,025	373,379	04 20	DEC 08,1974	
3,090	380,988	04 24	DEC 08,1974	
3,156	386,541	04 28	DEC 08,1974	
3,222	385,055	04 32	DEC 08,1974	DECLINE
3,288	367,781	04 36	DEC 08,1974	
3,353	351,413	04 40	DEC 08,1974	
3,419	340,605	04 44	DEC 08,1974	
3,485	331,853	04 48	DEC 08,1974	
3,551	326,460	04 52	DEC 08,1974	5 GPM INSIDE
3,616	323,330	04 56	DEC 08,1974	DP
3,682	321,433	05 00	DEC 08,1974	
3,748	320,336	05 04	DEC 08,1974	
3,814	319,651	05 08	DEC 08,1974	
3,879	319,194	05 12	DEC 08,1974	10 GPM INSIDE
3,945	319,080	05 16	DEC 08,1974	DP
4,011	319,034	05 20	DEC 08,1974	
4,077	319,034	05 24	DEC 08,1974	
4,142	319,034	05 28	DEC 08,1974	
4,208	319,057	05 31	DEC 08,1974	30 GPM INSIDE
4,274	319,560	05 35	DEC 08,1974	DP
4,340	320,039	05 39	DEC 08,1974	
4,405	320,451	05 43	DEC 08,1974	
4,471	320,839	05 47	DEC 08,1974	DECLINE
4,537	320,656	05 51	DEC 08,1974	
4,603	319,948	05 55	DEC 08,1974	
4,668	319,262	05 59	DEC 08,1974	
4,734	318,851	06 03	DEC 08,1974	
4,800	318,577	06 07	DEC 08,1974	END FLOW

II B-1603

74 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 2

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	318,609	06 07	DEC 08, 1974	FINAL SHUT-IN
.078	317,167	06 12	DEC 08, 1974	
.156	317,418	06 16	DEC 08, 1974	
.233	313,962	06 21	DEC 08, 1974	END TEST MPT-2

II B-1604

4 POINTS REPORTED THIS RUN

PAGE 6





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT  
GAUGE DEPTH IS 1122 FT. OUTSIDE D. P.  
INSIDE ANNULUS  
TEST INTERVAL IS FROM SURFACE TO  
1155 (PACKER DEPTH) INSIDE ANNULUS  
GROUND LEVEL REFERENCE IS 7036 FEET.

II B-1605

74 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO, 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	276.555	07 02	DEC 08, 1974	MPT NO. 3 START
.061	276.853	07 06	DEC 08, 1974	AT 1122 FEET
.122	277.173	07 09	DEC 08, 1974	
.183	277.494	07 13	DEC 08, 1974	END OPEN

II B-1606

4 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	277,494	07 13	DEC 08,1974	SHUT-IN INIT.
.063	277,631	07 17	DEC 08,1974	
.125	277,792	07 21	DEC 08,1974	
.188	276,967	07 24	DEC 08,1974	
.250	277,128	07 28	DEC 08,1974	
.313	277,311	07 32	DEC 08,1974	
.375	276,830	07 36	DEC 08,1974	
.438	276,945	07 39	DEC 08,1974	
.500	277,128	07 43	DEC 08,1974	END SHUT-IN

II B-1607

9 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	277,128	07 43	DEC 08, 1974	FINAL OPEN
.068	277,288	07 47	DEC 08, 1974	
.136	277,311	07 51	DEC 08, 1974	
.204	277,357	07 55	DEC 08, 1974	
.271	277,357	07 59	DEC 08, 1974	
.339	277,380	08 03	DEC 08, 1974	
.407	277,380	08 07	DEC 08, 1974	20 GPM ANNULUS
.475	279,554	08 11	DEC 08, 1974	
.543	285,735	08 16	DEC 08, 1974	
.611	290,726	08 20	DEC 08, 1974	
.679	295,281	08 24	DEC 08, 1974	
.746	299,150	08 28	DEC 08, 1974	40 GPM ANNULUS
.814	303,431	08 32	DEC 08, 1974	
.882	321,631	08 36	DEC 08, 1974	
.950	336,465	08 40	DEC 08, 1974	
1.018	347,087	08 44	DEC 08, 1974	
1.086	358,052	08 48	DEC 08, 1974	60 GPM ANNULUS
1.154	366,866	08 52	DEC 08, 1974	
1.221	373,299	08 56	DEC 08, 1974	
1.289	378,747	09 00	DEC 08, 1974	
1.357	383,097	09 04	DEC 08, 1974	
1.425	387,103	09 08	DEC 08, 1974	DECLINE
1.493	380,716	09 13	DEC 08, 1974	
1.561	369,087	09 17	DEC 08, 1974	
1.629	359,563	09 21	DEC 08, 1974	
1.696	350,590	09 25	DEC 08, 1974	
1.764	344,157	09 29	DEC 08, 1974	
1.832	338,205	09 33	DEC 08, 1974	
1.900	331,818	09 37	DEC 08, 1974	5 GPM INSIDE
1.968	325,683	09 41	DEC 08, 1974	DRILL PIPE
2.036	319,868	09 45	DEC 08, 1974	
2.104	314,076	09 49	DEC 08, 1974	
2.171	309,704	09 53	DEC 08, 1974	
2.239	306,018	09 57	DEC 08, 1974	10 GPM INSIDE
2.307	302,767	10 01	DEC 08, 1974	DRILL PIPE
2.375	299,677	10 05	DEC 08, 1974	
2.443	296,792	10 10	DEC 08, 1974	
2.511	294,068	10 14	DEC 08, 1974	
2.579	291,779	10 18	DEC 08, 1974	20 GPM INSIDE
2.646	289,970	10 22	DEC 08, 1974	DRILL PIPE

II B-1608





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,714	288,482	10 26	DEC 08,1974	
2,782	287,361	10 30	DEC 08,1974	
2,850	286,262	10 34	DEC 08,1974	19 GPM INSIDE
2,918	285,369	10 38	DEC 08,1974	DRILL PIPE
2,986	284,682	10 42	DEC 08,1974	
3,054	284,087	10 46	DEC 08,1974	
3,121	283,560	10 50	DEC 08,1974	
3,189	283,148	10 54	DEC 08,1974	DECLINE
3,257	282,782	10 58	DEC 08,1974	
3,325	282,485	11 02	DEC 08,1974	
3,393	282,187	11 07	DEC 08,1974	
3,461	281,912	11 11	DEC 08,1974	
3,529	281,615	11 15	DEC 08,1974	
3,596	281,340	11 19	DEC 08,1974	
3,664	281,065	11 23	DEC 08,1974	
3,732	280,836	11 27	DEC 08,1974	
3,800	280,676	11 31	DEC 08,1974	END FLOW

11 B-1609

57 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
42 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	280,676	11 31	DEC 08, 1974	FINAL SHUT-IN
.078	279,211	11 36	DEC 08, 1974	
.156	279,234	11 40	DEC 08, 1974	
.233	279,234	11 45	DEC 08, 1974	END TEST MPT-3

II B-1610

4 POINTS REPORTED THIS RUN

PAGE 6



JOB NUMBER  
SPG-11210-R

DATE OF JOB

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT    DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 42 WITH 1000 LB. ELEMENT

GAUGE DEPTH IS 1082 FT. OUTSIDE D. P.

INSIDE ANNULUS

TEST INTERVAL IS FROM SURFACE TO

1115 (PACKER DEPTH) INSIDE ANNULUS

GROUND LEVEL REFERENCE IS 7036 FEET,

FINAL HYDROSTATIC IS 314.97

II B-1611

92 POINTS REPORTED THIS JOB

PAGE 1 OF 5 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER  
42 MPT NO. 4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	257,103	12 58	DEC 08, 1974	MPT NO. 4 OPEN
,078	257,286	13 03	DEC 08, 1974	TEST DEPTH
,156	257,537	13 07	DEC 08, 1974	1082 FT.
,233	257,628	13 12	DEC 08, 1974	END OPEN

II B-1612

4 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER  
42 MPT NO. 4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	257,628	13 12	DEC 08, 1974	SHUT IN
.063	257,697	13 16	DEC 08, 1974	
.125	262,473	13 20	DEC 08, 1974	
.188	257,491	13 23	DEC 08, 1974	
.250	257,720	13 27	DEC 08, 1974	
.313	256,509	13 31	DEC 08, 1974	
.375	256,692	13 35	DEC 08, 1974	
.438	256,943	13 38	DEC 08, 1974	
.500	257,194	13 42	DEC 08, 1974	END SHUT IN

II B-1613

9 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
8PG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER  
42 MPT NO. 4

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	257,194	13 42	DEC 08,1974	FINAL OPEN
.067	257,217	13 46	DEC 08,1974	
.134	257,263	13 50	DEC 08,1974	
.201	257,308	13 54	DEC 08,1974	
.268	257,308	13 58	DEC 08,1974	
.334	258,085	14 02	DEC 08,1974	
.401	264,369	14 06	DEC 08,1974	
.468	269,351	14 10	DEC 08,1974	20 GPM ANNULUS
.535	273,715	14 14	DEC 08,1974	
.602	331,030	14 18	DEC 08,1974	52 GPM ANNULUS
.669	284,432	14 22	DEC 08,1974	
.736	298,073	14 26	DEC 08,1974	DECLINE
.803	298,987	14 30	DEC 08,1974	
.869	294,235	14 34	DEC 08,1974	
.936	288,545	14 38	DEC 08,1974	
1.003	284,112	14 42	DEC 08,1974	
1.070	280,090	14 46	DEC 08,1974	
1.137	276,388	14 50	DEC 08,1974	
1.204	272,824	14 54	DEC 08,1974	
1.271	270,036	14 58	DEC 08,1974	
1.338	267,820	15 02	DEC 08,1974	
1.404	266,129	15 06	DEC 08,1974	
1.471	264,598	15 10	DEC 08,1974	
1.538	263,524	15 14	DEC 08,1974	
1.605	262,473	15 18	DEC 08,1974	
1.672	261,627	15 22	DEC 08,1974	
1.739	260,942	15 26	DEC 08,1974	
1.806	260,348	15 30	DEC 08,1974	
1.873	259,845	15 34	DEC 08,1974	
1.940	259,411	15 38	DEC 08,1974	
2.006	259,136	15 42	DEC 08,1974	
2.073	258,862	15 46	DEC 08,1974	
2.140	258,679	15 50	DEC 08,1974	21 GPM ANNULUS
2.207	265,992	15 54	DEC 08,1974	
2.274	273,806	15 58	DEC 08,1974	
2.341	280,570	16 02	DEC 08,1974	
2.408	285,483	16 06	DEC 08,1974	
2.475	290,373	16 10	DEC 08,1974	39 GPM ANNULUS
2.541	313,504	16 14	DEC 08,1974	
2.608	323,307	16 19	DEC 08,1974	

II B-1614



JOB NUMBER  
SPG-11210-R

DATE OF JOB

GAUGE/RUN NUMBER  
42 MPT NO. 4

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,675	330,413	16 23	DEC 08,1974	
2,742	340,902	16 27	DEC 08,1974	
2,809	353,538	16 31	DEC 08,1974	61 GPM ANNULUS
2,876	364,422	16 35	DEC 08,1974	
2,943	373,447	16 39	DEC 08,1974	
3,010	381,514	16 43	DEC 08,1974	
3,076	383,319	16 47	DEC 08,1974	
3,143	365,793	16 51	DEC 08,1974	DECLINE
3,210	353,881	16 55	DEC 08,1974	
3,277	344,466	16 59	DEC 08,1974	
3,344	335,578	17 03	DEC 08,1974	
3,411	327,740	17 07	DEC 08,1974	
3,478	321,936	17 11	DEC 08,1974	5 GPM INSIDE
3,545	316,178	17 15	DEC 08,1974	DRILL PIPE
3,612	310,122	17 19	DEC 08,1974	
3,678	304,296	17 23	DEC 08,1974	
3,745	298,736	17 27	DEC 08,1974	
3,812	293,321	17 31	DEC 08,1974	11 GPM INSIDE
3,879	289,002	17 35	DEC 08,1974	DRILL PIPE
3,946	285,574	17 39	DEC 08,1974	
4,013	282,489	17 43	DEC 08,1974	10 GPM INSIDE
4,080	279,885	17 47	DEC 08,1974	DRILL PIPE
4,147	277,394	17 51	DEC 08,1974	11 GPM INSIDE
4,213	274,469	17 55	DEC 08,1974	DRILL PIPE
4,280	272,390	17 59	DEC 08,1974	20 GPM INSIDE
4,347	270,790	18 03	DEC 08,1974	DRILL PIPE
4,414	270,219	18 07	DEC 08,1974	
4,481	269,808	18 11	DEC 08,1974	18 GPM INSIDE
4,548	269,442	18 15	DEC 08,1974	DRILL PIPE
4,615	268,939	18 19	DEC 08,1974	KEEP PIPE FULL
4,682	267,637	18 23	DEC 08,1974	
4,749	266,540	18 27	DEC 08,1974	
4,815	265,512	18 31	DEC 08,1974	
4,882	264,621	18 35	DEC 08,1974	
4,949	263,935	18 39	DEC 08,1974	
5,016	263,341	18 43	DEC 08,1974	
5,083	262,770	18 47	DEC 08,1974	
5,150	262,313	18 51	DEC 08,1974	
5,217	261,856	18 55	DEC 08,1974	END TEST MPT 4

11 B-1615

79 POINTS REPORTED THIS RUN





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER     FEDERAL SG-17  
FIELD/LEASE     TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE            COLORADO  
TYPE OF TEST     MPT DRILL STEM  
REFERENCE ELEV   GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1385 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1372 FT.

(TOP PACKER DEPTH) TO 1387 FT.

(MIDDLE PACKER DEPTH)

INITIAL HYDROSTATIC IS 389.80 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

11 B-1616

63 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	395.426	19 36	DEC 07, 1974	MPT NO. 1 OPEN

11 B-1617

1 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	395.426	19 36	DEC 07, 1974	SHUT IN TEST
.079	389.451	19 41	DEC 07, 1974	DEPTH 1385 FT.
.158	389.510	19 46	DEC 07, 1974	
.237	389.569	19 50	DEC 07, 1974	
.317	389.569	19 55	DEC 07, 1974	
.396	389.686	20 00	DEC 07, 1974	
.475	389.686	20 04	DEC 07, 1974	
.554	389.510	20 09	DEC 07, 1974	
.633	389.510	20 14	DEC 07, 1974	END SHUT-IN

II B-1618

9 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 1

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	389.510	20 14	DEC 07, 1974	OPEN TO FLOW
.066	360.280	20 18	DEC 07, 1974	
.132	388.573	20 22	DEC 07, 1974	
.198	388.866	20 26	DEC 07, 1974	
.264	388.983	20 30	DEC 07, 1974	
.330	388.983	20 34	DEC 07, 1974	
.396	389.100	20 38	DEC 07, 1974	
.462	389.217	20 42	DEC 07, 1974	
.528	389.159	20 46	DEC 07, 1974	
.594	389.159	20 50	DEC 07, 1974	
.660	389.159	20 54	DEC 07, 1974	
.726	389.217	20 58	DEC 07, 1974	
.792	389.276	21 01	DEC 07, 1974	
.858	389.276	21 05	DEC 07, 1974	
.924	389.334	21 09	DEC 07, 1974	
.990	391.560	21 13	DEC 07, 1974	4.6 GPM INSIDE
1.056	393.083	21 17	DEC 07, 1974	DRILL PIPE
1.122	393.200	21 21	DEC 07, 1974	
1.187	393.318	21 25	DEC 07, 1974	
1.253	393.435	21 29	DEC 07, 1974	
1.319	390.857	21 33	DEC 07, 1974	DECLINE
1.385	393.610	21 37	DEC 07, 1974	10 GPM INSIDE
1.451	400.698	21 41	DEC 07, 1974	DRILL PIPE
1.517	401.811	21 45	DEC 07, 1974	
1.583	402.397	21 49	DEC 07, 1974	
1.649	403.627	21 53	DEC 07, 1974	
1.715	398.355	21 57	DEC 07, 1974	DECLINE
1.781	390.506	22 01	DEC 07, 1974	
1.847	390.272	22 05	DEC 07, 1974	
1.913	390.213	22 09	DEC 07, 1974	
1.979	390.096	22 13	DEC 07, 1974	30 GPM ANNULUS
2.045	390.096	22 17	DEC 07, 1974	
2.111	390.096	22 21	DEC 07, 1974	
2.177	390.096	22 25	DEC 07, 1974	
2.243	390.037	22 29	DEC 07, 1974	
2.309	390.037	22 33	DEC 07, 1974	
2.375	390.037	22 36	DEC 07, 1974	60 GPM ANNULUS
2.441	390.037	22 40	DEC 07, 1974	
2.507	390.096	22 44	DEC 07, 1974	
2.573	390.096	22 48	DEC 07, 1974	

II B-1619





JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 1

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,639	389,979	22 52	DEC 07, 1974	
2,705	389,979	22 56	DEC 07, 1974	
2,771	390,096	23 00	DEC 07, 1974	
2,837	389,979	23 04	DEC 07, 1974	
2,903	389,920	23 08	DEC 07, 1974	
2,969	389,862	23 12	DEC 07, 1974	
3,035	389,862	23 16	DEC 07, 1974	
3,101	389,803	23 20	DEC 07, 1974	
3,167	389,803	23 24	DEC 07, 1974	END FLOW

II B-1620

49 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 1

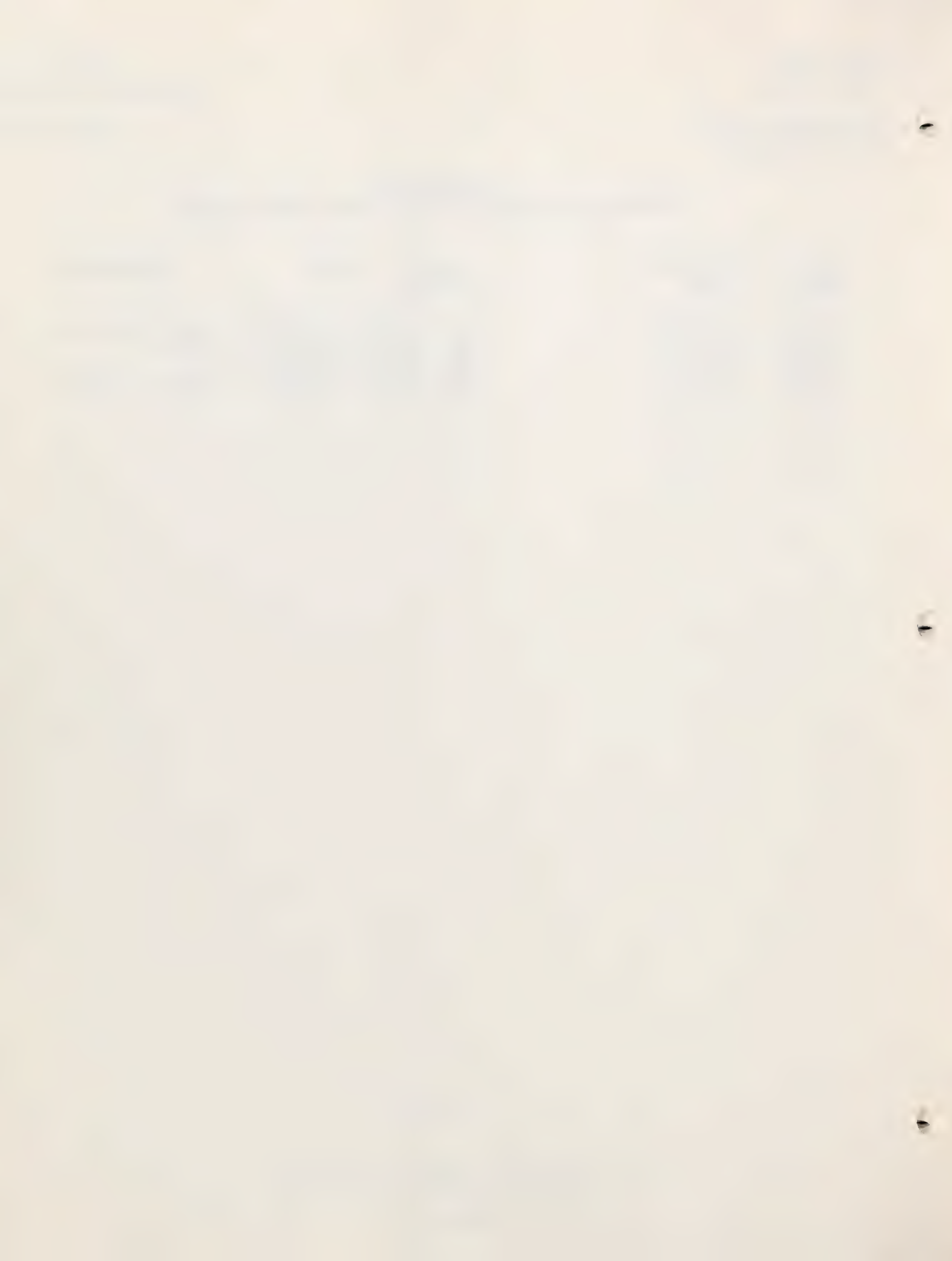
DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	389,803	23 24	DEC 07, 1974	FINAL SHUT-IN
.039	392,790	23 26	DEC 07, 1974	MPT-1
.078	391,267	23 29	DEC 07, 1974	
.117	390,974	23 31	DEC 07, 1974	UNSEAT PACKER

II B-1621

4 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT    DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1262 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1249 FT.

(TOP PACKER DEPTH) TO 1265 FT.

(MIDDLE PACKER DEPTH)

GROUND LEVEL REFERENCE IS 7036 FT.

II B-1622

92 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	346,281	00 24	DEC 08, 1974	MPT NO. 2 OPEN
.061	357,703	00 28	DEC 08, 1974	TOOL CYCLE
.122	347,101	00 31	DEC 08, 1974	TEST 1262 FT.
.183	346,808	00 35	DEC 08, 1974	END FLOW

II B-1623

4 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
BPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	343,703	00 35	DEC 08, 1974	INIT. SHUT-IN
.071	343,820	00 39	DEC 08, 1974	
.142	346,046	00 43	DEC 08, 1974	
.212	346,046	00 48	DEC 08, 1974	
.283	345,988	00 52	DEC 08, 1974	
.354	345,988	00 56	DEC 08, 1974	
.425	346,046	01 00	DEC 08, 1974	
.496	345,109	01 05	DEC 08, 1974	
.567	344,816	01 09	DEC 08, 1974	
.637	344,816	01 13	DEC 08, 1974	

II B-1624

10 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 2

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	344.816	01 19	DEC 08, 1974	FINAL OPEN
.066	344.875	01 23	DEC 08, 1974	
.132	344.816	01 27	DEC 08, 1974	
.197	344.816	01 31	DEC 08, 1974	
.263	344.816	01 35	DEC 08, 1974	
.329	344.816	01 39	DEC 08, 1974	
.395	344.933	01 43	DEC 08, 1974	
.460	344.933	01 47	DEC 08, 1974	
.526	344.933	01 51	DEC 08, 1974	
.592	344.933	01 55	DEC 08, 1974	
.658	344.933	01 58	DEC 08, 1974	
.723	344.933	02 02	DEC 08, 1974	
.789	344.992	02 06	DEC 08, 1974	
.855	344.933	02 10	DEC 08, 1974	
.921	344.992	02 14	DEC 08, 1974	
.986	344.992	02 18	DEC 08, 1974	
1.052	345.050	02 22	DEC 08, 1974	
1.118	345.050	02 26	DEC 08, 1974	
1.184	345.050	02 30	DEC 08, 1974	
1.249	345.050	02 34	DEC 08, 1974	
1.315	345.050	02 38	DEC 08, 1974	
1.381	345.050	02 42	DEC 08, 1974	
1.447	345.050	02 46	DEC 08, 1974	
1.512	345.109	02 50	DEC 08, 1974	30 GPM ANNULUS
1.578	345.109	02 54	DEC 08, 1974	
1.644	345.109	02 58	DEC 08, 1974	
1.710	345.050	03 02	DEC 08, 1974	
1.775	345.109	03 06	DEC 08, 1974	
1.841	345.168	03 09	DEC 08, 1974	
1.907	345.168	03 13	DEC 08, 1974	
1.973	345.168	03 17	DEC 08, 1974	
2.038	345.168	03 21	DEC 08, 1974	
2.104	345.168	03 25	DEC 08, 1974	
2.170	345.168	03 29	DEC 08, 1974	
2.236	345.168	03 33	DEC 08, 1974	
2.301	345.168	03 37	DEC 08, 1974	
2.367	345.168	03 41	DEC 08, 1974	
2.433	345.168	03 45	DEC 08, 1974	
2.499	345.753	03 49	DEC 08, 1974	
2.564	346.339	03 53	DEC 08, 1974	

II B-1625



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 HPT NO. 2

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,630	346,691	03 57	DEC 08,1974	
2,696	347,159	04 01	DEC 08,1974	
2,762	348,038	04 05	DEC 08,1974	
2,827	349,151	04 09	DEC 08,1974	60 GPM ANNULUS
2,893	350,147	04 13	DEC 08,1974	
2,959	350,850	04 17	DEC 08,1974	
3,025	351,494	04 20	DEC 08,1974	
3,090	352,021	04 24	DEC 08,1974	
3,156	351,728	04 28	DEC 08,1974	DECLINE
3,222	350,908	04 32	DEC 08,1974	
3,288	350,088	04 36	DEC 08,1974	
3,353	349,327	04 40	DEC 08,1974	
3,419	348,624	04 44	DEC 08,1974	
3,485	352,665	04 48	DEC 08,1974	
3,551	352,665	04 52	DEC 08,1974	5 GPM INSIDE DRILL PIPE
3,616	352,373	04 56	DEC 08,1974	
3,682	352,197	05 00	DEC 08,1974	
3,748	354,423	05 04	DEC 08,1974	
3,814	360,515	05 08	DEC 08,1974	
3,879	361,393	05 12	DEC 08,1974	10 GPM INSIDE DRILL PIPE
3,945	361,569	05 16	DEC 08,1974	
4,011	361,745	05 20	DEC 08,1974	
4,077	380,431	05 24	DEC 08,1974	
4,142	409,192	05 28	DEC 08,1974	
4,208	414,815	05 31	DEC 08,1974	30 GPM INSIDE DRILL PIPE
4,274	421,434	05 35	DEC 08,1974	
4,340	418,915	05 39	DEC 08,1974	
4,405	357,352	05 43	DEC 08,1974	
4,471	348,975	05 47	DEC 08,1974	DECLINE
4,537	348,038	05 51	DEC 08,1974	
4,603	347,569	05 55	DEC 08,1974	
4,668	347,335	05 59	DEC 08,1974	
4,734	348,448	06 03	DEC 08,1974	
4,800	348,389	06 07	DEC 08,1974	END FLOW

11 B-1626

74 POINTS REPORTED THIS RUN

PAGE 5





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 2

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	349.019	06 07	DEC 08, 1974	FINAL SHUT IN
.078	348.025	06 12	DEC 08, 1974	
.156	347.615	06 16	DEC 08, 1974	
.233	347.381	06 21	DEC 08, 1974	END TEST MPT 2

II B-1627

4 POINTS REPORTED THIS RUN

PAGE 6



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1168 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1155 FT.

(TOP PACKER DEPTH) TO 1171 FT.

(MIDDLE PACKER DEPTH)

GROUND LEVEL REFERENCE IS 7036 FT.

II B-1628

74 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	305.980	07 02	DEC 08, 1974	OPEN MPT-3
.092	305.921	07 07	DEC 08, 1974	
.183	305.980	07 13	DEC 08, 1974	END OPEN

II B-1629

3 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 3

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	305,980	07 13	DEC 08, 1974	SHUT-IN
.125	306,331	07 21	DEC 08, 1974	
.188	306,097	07 24	DEC 08, 1974	
.250	305,980	07 28	DEC 08, 1974	
.313	305,863	07 32	DEC 08, 1974	
.375	305,746	07 36	DEC 08, 1974	
.438	305,629	07 39	DEC 08, 1974	
.500	305,570	07 43	DEC 08, 1974	END SHUT-IN

II B-1630

8 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
BPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 HPT NO. 3

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	305.570	07 43	DEC 08, 1974	START FLOW
.066	305.746	07 47	DEC 08, 1974	
.131	305.511	07 51	DEC 08, 1974	
.197	305.511	07 55	DEC 08, 1974	
.262	305.511	07 59	DEC 08, 1974	
.328	305.511	08 03	DEC 08, 1974	
.393	305.453	08 07	DEC 08, 1974	30 GPM ANNULUS
.459	305.511	08 11	DEC 08, 1974	
.524	305.629	08 14	DEC 08, 1974	
.590	305.746	08 18	DEC 08, 1974	
.656	305.804	08 22	DEC 08, 1974	
.721	305.921	08 26	DEC 08, 1974	40 GPM ANNULUS
.787	306.039	08 30	DEC 08, 1974	
.852	306.214	08 34	DEC 08, 1974	
.918	306.449	08 38	DEC 08, 1974	
.983	306.624	08 42	DEC 08, 1974	
1.049	306.859	08 46	DEC 08, 1974	60 GPM ANNULUS
1.114	307.151	08 50	DEC 08, 1974	
1.180	307.210	08 54	DEC 08, 1974	
1.246	307.444	08 58	DEC 08, 1974	
1.311	307.679	09 02	DEC 08, 1974	
1.377	307.854	09 06	DEC 08, 1974	DECLINE
1.442	307.796	09 10	DEC 08, 1974	
1.508	307.854	09 13	DEC 08, 1974	
1.573	307.913	09 17	DEC 08, 1974	
1.639	307.854	09 21	DEC 08, 1974	
1.704	307.737	09 25	DEC 08, 1974	
1.770	307.679	09 29	DEC 08, 1974	
1.836	307.620	09 33	DEC 08, 1974	
1.901	316.524	09 37	DEC 08, 1974	5 GPM INSIDE DRILL PIPE
1.967	323.787	09 41	DEC 08, 1974	
2.032	327.419	09 45	DEC 08, 1974	
2.098	329.411	09 49	DEC 08, 1974	
2.163	331.754	09 53	DEC 08, 1974	
2.229	350.088	09 57	DEC 08, 1974	10 GPM INSIDE DRILL PIPE
2.294	361.042	10 01	DEC 08, 1974	
2.360	368.540	10 05	DEC 08, 1974	
2.426	373.226	10 09	DEC 08, 1974	
2.491	364.146	10 12	DEC 08, 1974	
2.557	355.829	10 16	DEC 08, 1974	20 GPM INSIDE



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 3

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,622	372,171	10 20	DEC 08,1974	DRILL PIPE
2,688	384,707	10 24	DEC 08,1974	
2,753	456,229	10 28	DEC 08,1974	
2,819	458,337	10 32	DEC 08,1974	
2,884	461,149	10 36	DEC 08,1974	19 GPM INSIDE
2,950	463,844	10 40	DEC 08,1974	DRILL PIPE
3,016	466,245	10 44	DEC 08,1974	
3,081	445,919	10 48	DEC 08,1974	
3,147	393,669	10 52	DEC 08,1974	
3,212	356,707	10 56	DEC 08,1974	DECLINE
3,278	332,925	11 00	DEC 08,1974	
3,343	318,632	11 04	DEC 08,1974	
3,409	311,896	11 08	DEC 08,1974	
3,474	308,850	11 11	DEC 08,1974	
3,540	307,796	11 15	DEC 08,1974	
3,606	307,327	11 19	DEC 08,1974	
3,671	339,486	11 23	DEC 08,1974	
3,737	306,156	11 27	DEC 08,1974	
3,802	305,746	11 31	DEC 08,1974	END FLOW

II B-1632

59 POINTS REPORTED THIS RUN



JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 3

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	332,840	11 31	DEC 08, 1974	FINAL SHUT IN
.078	318,504	11 36	DEC 08, 1974	
.156	311,717	11 40	DEC 08, 1974	
.233	308,733	11 45	DEC 08, 1974	END TEST MPT 3

II B-1633

4 POINTS REPORTED THIS RUN

PAGE 6





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO, 168 WITH 2500 LB. ELEMENT

GAUGE DEPTH IS 1128 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1115 FT.

(TOP PACKER DEPTH) TO 1130 FT.

(MIDDLE PACKER DEPTH)

FINAL HYDROSTATIC IS 357.45 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

II B-1634

91 POINTS REPORTED THIS JOB

PAGE 1 OF 5 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 4

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	284,189	12 58	DEC 08, 1974	OPEN MPT NO. 4
.117	284,189	13 05	DEC 08, 1974	DEPTH 1128 FT.
.233	283,897	13 12	DEC 08, 1974	END OPEN

II B-1635

3 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 4

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	283,897	13 12	DEC 08,1974	END SHUT-IN
,063	283,545	13 16	DEC 08,1974	
,125	281,436	13 20	DEC 08,1974	
,188	283,955	13 23	DEC 08,1974	
,250	284,189	13 27	DEC 08,1974	
,313	284,189	13 31	DEC 08,1974	
,375	284,131	13 35	DEC 08,1974	
,438	298,365	13 38	DEC 08,1974	
,500	287,118	13 42	DEC 08,1974	END SHUT-IN

II B-1636

9 POINTS REPORTED THIS RUN

PAGE 3





JOB NUMBER  
8PG-11210-R

DATE OF JO  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 4

DATE OF RUI

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	287,118	13 42	DEC 08,1974	START FLOW
0,067	284,365	13 46	DEC 08,1974	
0,134	284,248	13 50	DEC 08,1974	
0,201	284,189	13 54	DEC 08,1974	
0,268	284,189	13 58	DEC 08,1974	
0,334	284,189	14 02	DEC 08,1974	
0,401	284,131	14 06	DEC 08,1974	
0,468	284,189	14 10	DEC 08,1974	20 GPM ANNULUS
0,535	284,189	14 14	DEC 08,1974	
0,602	284,189	14 18	DEC 08,1974	52 GPM ANNULUS
0,669	284,189	14 22	DEC 08,1974	
0,736	284,189	14 26	DEC 08,1974	DECLINE
0,803	284,307	14 30	DEC 08,1974	
0,869	284,307	14 34	DEC 08,1974	
0,936	284,307	14 38	DEC 08,1974	
1,003	284,189	14 42	DEC 08,1974	
1,070	284,248	14 46	DEC 08,1974	
1,137	284,365	14 50	DEC 08,1974	
1,204	284,307	14 54	DEC 08,1974	
1,271	284,307	14 58	DEC 08,1974	
1,338	284,307	15 02	DEC 08,1974	
1,404	284,365	15 06	DEC 08,1974	
1,471	284,365	15 10	DEC 08,1974	
1,538	284,365	15 14	DEC 08,1974	
1,605	284,365	15 18	DEC 08,1974	
1,672	284,365	15 22	DEC 08,1974	
1,739	284,365	15 26	DEC 08,1974	
1,806	284,307	15 30	DEC 08,1974	
1,873	284,424	15 34	DEC 08,1974	
1,940	284,365	15 38	DEC 08,1974	
2,006	284,365	15 42	DEC 08,1974	
2,073	284,365	15 46	DEC 08,1974	
2,140	284,424	15 50	DEC 08,1974	21 GPM ANNULUS
2,207	284,424	15 54	DEC 08,1974	
2,274	284,424	15 58	DEC 08,1974	
2,341	284,424	16 02	DEC 08,1974	
2,408	284,424	16 06	DEC 08,1974	
2,475	284,541	16 10	DEC 08,1974	39 GPM ANNULUS
2,541	284,541	16 14	DEC 08,1974	
2,608	284,482	16 18	DEC 08,1974	

II B-1637



JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
168 MPT NO. 4

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,675	284,482	16 23	DEC 08,1974	
2,742	284,600	16 27	DEC 08,1974	
2,809	284,600	16 31	DEC 08,1974	61 GPM ANNULUS
2,876	284,541	16 35	DEC 08,1974	
2,943	284,717	16 39	DEC 08,1974	
3,010	284,717	16 43	DEC 08,1974	
3,076	284,717	16 47	DEC 08,1974	
3,143	284,717	16 51	DEC 08,1974	DECLINE
3,210	284,834	16 55	DEC 08,1974	
3,277	284,834	16 59	DEC 08,1974	
3,344	284,834	17 03	DEC 08,1974	
3,411	284,834	17 07	DEC 08,1974	
3,478	299,595	17 11	DEC 08,1974	5 GPM INSIDE
3,545	309,026	17 15	DEC 08,1974	DRILL PIPE
3,612	315,059	17 19	DEC 08,1974	
3,678	318,984	17 23	DEC 08,1974	
3,745	327,712	17 27	DEC 08,1974	
3,812	357,469	17 31	DEC 08,1974	11 GPM INSIDE
3,879	382,891	17 35	DEC 08,1974	DRILL PIPE
3,946	396,012	17 39	DEC 08,1974	
4,013	396,656	17 43	DEC 08,1974	10 GPM INSIDE
4,080	410,188	17 47	DEC 08,1974	DRILL PIPE
4,147	427,468	17 51	DEC 08,1974	11 GPM INSIDE
4,213	455,233	17 55	DEC 08,1974	DRILL PIPE
4,280	464,839	17 59	DEC 08,1974	20 GPM INSIDE
4,347	465,191	18 03	DEC 08,1974	DRILL PIPE
4,414	465,542	18 07	DEC 08,1974	
4,481	466,187	18 11	DEC 08,1974	18 GPM INSIDE
4,548	424,832	18 15	DEC 08,1974	DRILL PIPE
4,615	384,531	18 19	DEC 08,1974	KEEP PIPE FULL
4,682	349,151	18 23	DEC 08,1974	
4,749	321,093	18 27	DEC 08,1974	
4,815	301,118	18 31	DEC 08,1974	
4,882	289,169	18 35	DEC 08,1974	
4,949	285,478	18 39	DEC 08,1974	
5,016	285,302	18 43	DEC 08,1974	
5,083	285,244	18 47	DEC 08,1974	
5,150	285,244	18 51	DEC 08,1974	
5,217	285,068	18 55	DEC 08,1974	END FLOW

II B-1638

79 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 88 WITH 1000 LB. ELEMENT  
GAUGE DEPTH IS 1401 FT. INSIDE DRILL PIPE  
TEST INTERVAL IS FROM 1387 FT.  
(MIDDLE PACKER DEPTH) TO 1403 FT.  
(BOTTOM PACKER DEPTH)  
INITIAL HYDROSTATIC IS 383.87 PSI  
GROUND LEVEL REFERENCE IS 7036 FT.

II B-1639

62 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	385,509	19 36	DEC 07, 1974	MPT NO. 1 OPEN

II B-1640

1 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-1,210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	385,509	19 36	DEC 07, 1974	SHUT IN TEST
,070	385,416	19 40	DEC 07, 1974	DEPTH 1401 FT
,141	385,486	19 44	DEC 07, 1974	
,211	385,603	19 49	DEC 07, 1974	
,281	385,673	19 53	DEC 07, 1974	
,352	385,649	19 57	DEC 07, 1974	
,422	385,579	20 01	DEC 07, 1974	
,493	385,673	20 06	DEC 07, 1974	
,563	385,579	20 10	DEC 07, 1974	
,633	384,480	20 14	DEC 07, 1974	END SHUT IN

II B-1641

10 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
BPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	384,480	20 14	DEC 07,1974	FINAL OPEN
,067	385,135	20 18	DEC 07,1974	
,135	385,416	20 22	DEC 07,1974	
,202	385,439	20 26	DEC 07,1974	
,270	385,579	20 30	DEC 07,1974	
,337	385,603	20 34	DEC 07,1974	
,404	385,603	20 38	DEC 07,1974	
,472	385,649	20 42	DEC 07,1974	
,539	385,673	20 46	DEC 07,1974	
,606	385,673	20 50	DEC 07,1974	
,674	385,673	20 54	DEC 07,1974	
,741	385,673	20 58	DEC 07,1974	
,809	385,673	21 03	DEC 07,1974	
,876	385,673	21 07	DEC 07,1974	
,943	385,673	21 11	DEC 07,1974	
1,011	385,673	21 15	DEC 07,1974	4,6 G/M INSIDE DRILL PIPE
1,078	385,696	21 19	DEC 07,1974	
1,145	385,673	21 23	DEC 07,1974	
1,213	385,883	21 27	DEC 07,1974	
1,280	385,977	21 31	DEC 07,1974	DECLINE 10 G/M INSIDE DRILL PIPE
1,348	386,024	21 35	DEC 07,1974	
1,415	386,070	21 39	DEC 07,1974	
1,482	386,094	21 43	DEC 07,1974	
1,550	385,953	21 47	DEC 07,1974	DECLINE
1,617	386,374	21 51	DEC 07,1974	
1,684	386,515	21 55	DEC 07,1974	
1,752	386,632	21 59	DEC 07,1974	
1,819	386,678	22 03	DEC 07,1974	30 GPM ANNULUS
1,887	386,772	22 07	DEC 07,1974	
1,954	386,468	22 11	DEC 07,1974	
2,021	386,304	22 15	DEC 07,1974	
2,089	386,257	22 19	DEC 07,1974	60 GPM ANNULUS
2,156	386,234	22 23	DEC 07,1974	
2,223	386,187	22 27	DEC 07,1974	
2,291	386,164	22 31	DEC 07,1974	
2,358	386,164	22 35	DEC 07,1974	
2,426	386,164	22 40	DEC 07,1974	
2,493	386,140	22 44	DEC 07,1974	
2,560	386,164	22 48	DEC 07,1974	
2,628	386,164	22 52	DEC 07,1974	

II B-1642



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO, 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,695	386,164	22 56	DEC 07, 1974	
2,762	386,211	23 00	DEC 07, 1974	
2,830	386,211	23 04	DEC 07, 1974	
2,897	399,447	23 08	DEC 07, 1974	
2,965	386,304	23 12	DEC 07, 1974	
3,032	386,257	23 16	DEC 07, 1974	
3,099	386,234	23 20	DEC 07, 1974	
3,167	386,211	23 24	DEC 07, 1974	END FLOW

II B-1643

48 POINTS REPORTED THIS RUN





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	386,211	23 24	DEC 07, 1974	FINAL SHUT IN
.058	386,187	23 27	DEC 07, 1974	UNSEAT PACKER
:117	386,234	23 31	DEC 07, 1974	END MPT NO. 1

11 B-1644

3 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 88 WITH 1000 LB ELEMENT  
GAUGE DEPTH IS 1278 FT INSIDE DP  
TEST INTERVAL IS FROM 1265 FT  
(MIDDLE PACKER) TO 1280 FT  
(BOTTOM PACKER) INSIDE DP  
GROUND LEVEL REFERENCE IS 7036 FT

II B-1645

91 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	334,761	00 24	DEC 08, 1974	MPT NO. 2 OPEN
.092	334,340	00 29	DEC 08, 1974	TEST DEPTH
.183	334,246	00 35	DEC 08, 1974	1278 FT.

II B-1646

3 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	334,246	00 35	DEC 08,1974	SHUT IN
,067	334,199	00 39	DEC 08,1974	
,133	334,153	00 43	DEC 08,1974	
,200	334,223	00 47	DEC 08,1974	
,267	333,755	00 51	DEC 08,1974	
,333	333,615	00 55	DEC 08,1974	
,400	333,568	00 59	DEC 08,1974	
,467	333,591	01 03	DEC 08,1974	
,533	333,568	01 07	DEC 08,1974	
,600	333,591	01 11	DEC 08,1974	
,667	333,638	01 15	DEC 08,1974	
,733	333,638	01 19	DEC 08,1974	END SHUT IN

II B-1647

12 POINTS REPORTED THIS RUN





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	333.638	01 19	DEC 08, 1974	FINAL OPEN
.068	333.708	01 23	DEC 08, 1974	
.135	334.270	01 27	DEC 08, 1974	
.203	334.036	01 31	DEC 08, 1974	
.270	333.942	01 35	DEC 08, 1974	
.338	333.989	01 39	DEC 08, 1974	
.406	333.989	01 43	DEC 08, 1974	
.473	334.012	01 47	DEC 08, 1974	
.541	333.989	01 51	DEC 08, 1974	
.608	333.989	01 56	DEC 08, 1974	
.676	334.036	02 00	DEC 08, 1974	
.744	334.036	02 04	DEC 08, 1974	
.811	334.036	02 08	DEC 08, 1974	
.879	334.036	02 12	DEC 08, 1974	
.946	334.083	02 16	DEC 08, 1974	
1.014	334.036	02 20	DEC 08, 1974	
1.082	334.036	02 24	DEC 08, 1974	
1.149	334.083	02 28	DEC 08, 1974	
1.217	334.083	02 32	DEC 08, 1974	
1.285	334.106	02 36	DEC 08, 1974	
1.352	334.106	02 40	DEC 08, 1974	
1.420	334.199	02 44	DEC 08, 1974	
1.487	334.223	02 48	DEC 08, 1974	
1.555	334.223	02 52	DEC 08, 1974	
1.623	334.223	02 56	DEC 08, 1974	
1.690	334.199	03 00	DEC 08, 1974	
1.758	334.223	03 04	DEC 08, 1974	
1.825	334.223	03 09	DEC 08, 1974	
1.893	334.246	03 13	DEC 08, 1974	
1.961	334.223	03 17	DEC 08, 1974	
2.028	334.223	03 21	DEC 08, 1974	
2.096	334.270	03 25	DEC 08, 1974	
2.163	334.293	03 29	DEC 08, 1974	
2.231	334.316	03 33	DEC 08, 1974	
2.299	334.316	03 37	DEC 08, 1974	
2.366	334.387	03 41	DEC 08, 1974	30 GPM ANNULUS
2.434	334.387	03 45	DEC 08, 1974	
2.501	334.410	03 49	DEC 08, 1974	
2.569	334.410	03 53	DEC 08, 1974	
2.637	334.433	03 57	DEC 08, 1974	

11 B-1648



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,704	334,433	04 01	DEC 08,1974	
2,772	334,457	04 05	DEC 08,1974	
2,839	334,480	04 09	DEC 08,1974	60 GPM ANNULUS
2,907	334,480	04 13	DEC 08,1974	
2,975	334,550	04 17	DEC 08,1974	
3,042	334,527	04 22	DEC 08,1974	
3,110	334,550	04 26	DEC 08,1974	
3,177	334,574	04 30	DEC 08,1974	DECLINE
3,245	334,644	04 34	DEC 08,1974	
3,313	334,691	04 38	DEC 08,1974	
3,380	334,737	04 42	DEC 08,1974	
3,448	334,808	04 46	DEC 08,1974	
3,515	334,878	04 50	DEC 08,1974	5 GPM INSIDE
3,583	334,971	04 54	DEC 08,1974	DRILL PIPE
3,651	335,018	04 58	DEC 08,1974	
3,718	335,041	05 02	DEC 08,1974	
3,786	335,041	05 06	DEC 08,1974	
3,854	335,041	05 10	DEC 08,1974	10 GPM INSIDE
3,921	335,088	05 14	DEC 08,1974	DRILL PIPE
3,989	335,041	05 18	DEC 08,1974	
4,056	335,041	05 22	DEC 08,1974	
4,124	335,018	05 26	DEC 08,1974	
4,192	335,018	05 30	DEC 08,1974	30 GPM INSIDE
4,259	335,018	05 35	DEC 08,1974	DRILL PIPE
4,327	334,971	05 39	DEC 08,1974	
4,394	334,995	05 43	DEC 08,1974	
4,462	335,041	05 47	DEC 08,1974	DECLINE
4,530	335,065	05 51	DEC 08,1974	
4,597	335,065	05 55	DEC 08,1974	
4,665	335,088	05 59	DEC 08,1974	
4,732	335,112	06 03	DEC 08,1974	
4,800	335,182	06 07	DEC 08,1974	END FLOW

II B-1649

72 POINTS REPORTED THIS RUN

PAGE 5



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	335,182	06 07	DEC 08, 1974	FINAL SHUT IN
.078	335,275	06 12	DEC 08, 1974	
.156	335,369	06 16	DEC 08, 1974	
.233	335,462	06 21	DEC 08, 1974	END TEST MPT 2

II B-1650

4 POINTS REPORTED THIS RUN





JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 88 WITH 1000 LB ELEMENT

GAUGE DEPTH IS 1184 FT INSIDE DP

TEST INTERVAL IS FROM 1171 FT

(MIDDLE PACKER) TO 1186 FT

(BOTTOM PACKER)

GROUND LEVEL REFERENCE IS 7036 FT

II B-1651

74 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO, 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	334,924	07 02	DEC 08, 1974	MPT NO.3 OPEN
.061	334,901	07 06	DEC 08, 1974	TEST DEPTH
.122	334,924	07 09	DEC 08, 1974	1184 FT.
.183	333,241	07 13	DEC 08, 1974	END OPEN

II B-1652

4 POINTS REPORTED THIS RUN



JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 3

DATE OF RUN

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	334,924	07 13	DEC 08, 1974	SHUT IN
,071	309,176	07 17	DEC 08, 1974	
,143	295,846	07 22	DEC 08, 1974	
,214	296,173	07 26	DEC 08, 1974	
,286	299,447	07 30	DEC 08, 1974	
,357	299,822	07 34	DEC 08, 1974	
,429	299,705	07 39	DEC 08, 1974	
,500	299,658	07 43	DEC 08, 1974	END SHUT IN

II B-1653

8 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	299,658	07 43	DEC 08, 1974	FINAL OPEN
,067	299,705	07 47	DEC 08, 1974	
,133	299,728	07 51	DEC 08, 1974	
,200	299,705	07 55	DEC 08, 1974	
,267	299,705	07 59	DEC 08, 1974	
,333	299,751	08 03	DEC 08, 1974	
,400	299,658	08 07	DEC 08, 1974	20 GPM ANNULUS
,467	299,588	08 11	DEC 08, 1974	
,533	299,588	08 15	DEC 08, 1974	
,600	299,611	08 19	DEC 08, 1974	
,667	299,494	08 23	DEC 08, 1974	
,733	299,471	08 27	DEC 08, 1974	40 GPM ANNULUS
,800	299,518	08 31	DEC 08, 1974	
,867	299,541	08 35	DEC 08, 1974	
,933	299,518	08 39	DEC 08, 1974	
1,000	299,541	08 43	DEC 08, 1974	
1,067	299,541	08 47	DEC 08, 1974	60 GPM ANNULUS
1,133	299,611	08 51	DEC 08, 1974	
1,200	299,564	08 55	DEC 08, 1974	
1,267	299,635	08 59	DEC 08, 1974	
1,333	298,746	09 03	DEC 08, 1974	
1,400	299,705	09 07	DEC 08, 1974	DECLINE
1,467	299,751	09 11	DEC 08, 1974	
1,533	299,751	09 15	DEC 08, 1974	
1,600	299,775	09 19	DEC 08, 1974	
1,667	299,775	09 23	DEC 08, 1974	
1,733	299,798	09 27	DEC 08, 1974	
1,800	299,822	09 31	DEC 08, 1974	
1,867	299,822	09 35	DEC 08, 1974	5 GPM INSIDE
1,933	299,892	09 39	DEC 08, 1974	DRILL PIPE
2,000	299,892	09 43	DEC 08, 1974	
2,067	299,915	09 47	DEC 08, 1974	
2,133	299,985	09 51	DEC 08, 1974	
2,200	299,962	09 55	DEC 08, 1974	10 GPM INSIDE
2,267	300,032	09 59	DEC 08, 1974	DRILL PIPE
2,333	300,032	10 03	DEC 08, 1974	
2,400	300,055	10 07	DEC 08, 1974	
2,467	300,079	10 11	DEC 08, 1974	
2,533	300,102	10 15	DEC 08, 1974	
2,600	300,102	10 19	DEC 08, 1974	20 GPM INSIDE





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
08 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	300,126	10 23	DEC 08,1974	DRILL PIPE
2,733	300,149	10 27	DEC 08,1974	
2,800	300,126	10 31	DEC 08,1974	
2,867	300,172	10 35	DEC 08,1974	19 GPM INSIDE
2,933	300,219	10 39	DEC 08,1974	DRILL PIPE
3,000	300,219	10 43	DEC 08,1974	
3,067	300,266	10 47	DEC 08,1974	
3,133	300,289	10 51	DEC 08,1974	
3,200	300,266	10 55	DEC 08,1974	DECLINE
3,267	300,289	10 59	DEC 08,1974	
3,333	300,289	11 03	DEC 08,1974	
3,400	300,313	11 07	DEC 08,1974	
3,467	300,313	11 11	DEC 08,1974	
3,533	300,359	11 15	DEC 08,1974	
3,600	300,383	11 19	DEC 08,1974	
3,667	300,383	11 23	DEC 08,1974	
3,733	300,406	11 27	DEC 08,1974	
3,800	300,406	11 31	DEC 08,1974	END FLOW

II B-1655

58 POINTS REPORTED THIS RUN

PAGE 5



JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	354,990	11 31	DEC 08, 1974	FINAL SHUT IN
.078	300,406	11 36	DEC 08, 1974	
.156	300,430	11 40	DEC 08, 1974	
.233	300,430	11 45	DEC 08, 1974	END TEST MPT. 3

II B-1656

4 POINTS REPORTED THIS RUN

PAGE 6



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO, 88 WITH 1000 LB ELEMENT

GAUGE DEPTH IS 1143 FT INSIDE DP

TEST INTERVAL IS FROM 1130 FT

(MIDDLE PACKER DEPTH) TO 1146 FT

(BOTTOM PACKER DEPTH)

GROUND LEVEL REFERENCE IS 7036 FT.

FINAL HYDROSTATIC IS 326.76

II B-1657

92 POINTS REPORTED THIS JOB

PAGE 1 OF 5 PAGES





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	279,686	12 58	DEC 08, 1974	MPT NO. 4 OPEN
.078	279,780	13 03	DEC 08, 1974	TEST DEPTH
.156	279,733	13 07	DEC 08, 1974	1143 FT.
.233	279,709	13 12	DEC 08, 1974	END OPEN

II B-1658

4 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO. 4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	279,709	13 12	DEC 08,1974	SHUT IN
,063	279,733	13 16	DEC 08,1974	
,125	279,709	13 20	DEC 08,1974	
,188	279,733	13 23	DEC 08,1974	
,250	279,756	13 27	DEC 08,1974	
,313	279,686	13 31	DEC 08,1974	
,375	279,639	13 35	DEC 08,1974	
,438	279,639	13 38	DEC 08,1974	
,500	280,084	13 42	DEC 08,1974	END SHUT IN

II B-1659

9 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
08 MPT NO. 4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	280.084	13 42	DEC 08, 1974	FINAL OPEN
.067	279.873	13 46	DEC 08, 1974	
.134	279.756	13 50	DEC 08, 1974	
.201	279.663	13 54	DEC 08, 1974	
.268	279.686	13 58	DEC 08, 1974	
.334	279.709	14 02	DEC 08, 1974	
.401	279.709	14 06	DEC 08, 1974	
.468	279.826	14 10	DEC 08, 1974	20 GPM ANNULUS
.535	279.733	14 14	DEC 08, 1974	
.602	279.780	14 18	DEC 08, 1974	52 GPM ANNULUS
.669	279.803	14 22	DEC 08, 1974	
.736	279.826	14 26	DEC 08, 1974	DECLINE
.803	279.943	14 30	DEC 08, 1974	
.869	279.850	14 34	DEC 08, 1974	
.936	279.943	14 38	DEC 08, 1974	
1.003	279.896	14 42	DEC 08, 1974	
1.070	279.920	14 46	DEC 08, 1974	
1.137	279.990	14 50	DEC 08, 1974	
1.204	279.990	14 54	DEC 08, 1974	
1.271	279.990	14 58	DEC 08, 1974	
1.338	280.060	15 02	DEC 08, 1974	
1.404	279.967	15 06	DEC 08, 1974	
1.471	280.013	15 10	DEC 08, 1974	
1.538	280.013	15 14	DEC 08, 1974	
1.605	280.013	15 18	DEC 08, 1974	
1.672	279.990	15 22	DEC 08, 1974	
1.739	279.990	15 26	DEC 08, 1974	
1.806	280.060	15 30	DEC 08, 1974	
1.873	280.060	15 34	DEC 08, 1974	
1.940	280.060	15 38	DEC 08, 1974	
2.006	280.060	15 42	DEC 08, 1974	
2.073	280.037	15 46	DEC 08, 1974	
2.140	280.130	15 50	DEC 08, 1974	21 GPM ANNULUS
2.207	280.084	15 54	DEC 08, 1974	
2.274	280.130	15 58	DEC 08, 1974	
2.341	280.107	16 02	DEC 08, 1974	
2.408	280.130	16 06	DEC 08, 1974	
2.475	280.224	16 10	DEC 08, 1974	39 GPM ANNULUS
2.541	280.177	16 14	DEC 08, 1974	
2.608	280.317	16 19	DEC 08, 1974	





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
88 MPT NO, 4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,675	280,271	16 23	DEC 08,1974	
2,742	280,317	16 27	DEC 08,1974	
2,809	280,317	16 31	DEC 08,1974	61 GPM ANNULUS
2,876	280,364	16 35	DEC 08,1974	
2,943	280,434	16 39	DEC 08,1974	
3,010	280,505	16 43	DEC 08,1974	
3,076	280,528	16 47	DEC 08,1974	
3,143	280,551	16 51	DEC 08,1974	DECLINE
3,210	280,575	16 55	DEC 08,1974	
3,277	280,598	16 59	DEC 08,1974	
3,344	280,598	17 03	DEC 08,1974	
3,411	280,668	17 07	DEC 08,1974	
3,478	280,879	17 11	DEC 08,1974	5 GPM INSIDE
3,545	281,276	17 15	DEC 08,1974	DRILL PIPE
3,612	281,487	17 19	DEC 08,1974	
3,678	281,510	17 23	DEC 08,1974	
3,745	281,674	17 27	DEC 08,1974	
3,812	281,954	17 31	DEC 08,1974	11 GPM INSIDE
3,879	282,118	17 35	DEC 08,1974	DRILL PIPE
3,946	282,258	17 39	DEC 08,1974	
4,013	282,446	17 43	DEC 08,1974	10 GPM INSIDE
4,080	282,352	17 47	DEC 08,1974	DRILL PIPE
4,147	282,399	17 51	DEC 08,1974	11 GPM INSIDE
4,213	282,586	17 55	DEC 08,1974	DRILL PIPE
4,280	282,703	17 59	DEC 08,1974	20 GPM INSIDE
4,347	282,773	18 03	DEC 08,1974	DRILL PIPE
4,414	282,843	18 07	DEC 08,1974	
4,481	282,843	18 11	DEC 08,1974	18 GPM INSIDE
4,548	282,890	18 15	DEC 08,1974	DRILL PIPE
4,615	282,820	18 19	DEC 08,1974	KEEP PIPE FULL
4,682	282,492	18 23	DEC 08,1974	
4,749	282,258	18 27	DEC 08,1974	
4,815	281,954	18 31	DEC 08,1974	
4,882	281,674	18 35	DEC 08,1974	
4,949	281,113	18 39	DEC 08,1974	
5,016	280,996	18 43	DEC 08,1974	
5,083	280,925	18 47	DEC 08,1974	
5,150	280,879	18 51	DEC 08,1974	
5,217	280,879	18 55	DEC 08,1974	END TEST MPT-4

II B-1661

79 POINTS REPORTED THIS RUN





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT C-B SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT  
GAUGE DEPTH IS 1418 FT. INSIDE D.P.  
TEST INTERVAL IS FROM 1403 FT.  
(BOTTOM PACKER DEPTH) TO 1470 FT. (T.D.)  
GROUND LEVEL REFERENCE IS 7036 FT.  
INITIAL HYDROSTATIC IS 384.70 PSI

II B-1662

62 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	385,248	19 36	DEC 07, 1974	MPT NO.1 OPEN

II B-1663

1 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	385,248	19 36	DEC 07,1974	SHUT IN TEST
.070	385,201	19 40	DEC 07,1974	DEPTH 1418 FT.
.141	385,436	19 44	DEC 07,1974	
.211	385,577	19 49	DEC 07,1974	
.281	385,577	19 53	DEC 07,1974	
.352	385,577	19 57	DEC 07,1974	
.422	385,671	20 01	DEC 07,1974	
.493	385,718	20 06	DEC 07,1974	
.563	385,671	20 10	DEC 07,1974	
.633	385,671	20 14	DEC 07,1974	END SHUT IN

II B-1664

10 POINTS REPORTED THIS RUN

PAGE 3





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	385,671	20 14	DEC 07,1974	FINAL OPEN
0,067	384,873	20 18	DEC 07,1974	
0,135	385,389	20 22	DEC 07,1974	
0,202	385,483	20 26	DEC 07,1974	
0,270	385,530	20 30	DEC 07,1974	
0,337	385,530	20 34	DEC 07,1974	
0,404	385,577	20 38	DEC 07,1974	
0,472	385,483	20 42	DEC 07,1974	
0,539	385,577	20 46	DEC 07,1974	
0,606	385,530	20 50	DEC 07,1974	
0,674	385,530	20 54	DEC 07,1974	
0,741	385,530	20 58	DEC 07,1974	
0,809	385,577	21 03	DEC 07,1974	
0,876	385,577	21 07	DEC 07,1974	
0,943	385,577	21 11	DEC 07,1974	
1,011	385,577	21 15	DEC 07,1974	4.6 G/M INSIDE
1,078	385,764	21 19	DEC 07,1974	DRILL PIPE
1,145	385,905	21 23	DEC 07,1974	
1,213	385,905	21 27	DEC 07,1974	
1,280	385,999	21 31	DEC 07,1974	
1,348	385,999	21 35	DEC 07,1974	DECLINE
1,415	385,952	21 39	DEC 07,1974	10 G/M INSIDE
1,482	386,046	21 43	DEC 07,1974	DRILL PIPE
1,550	386,468	21 47	DEC 07,1974	
1,617	386,515	21 51	DEC 07,1974	
1,684	386,562	21 55	DEC 07,1974	
1,752	386,609	21 59	DEC 07,1974	DECLINE
1,819	386,562	22 03	DEC 07,1974	
1,887	386,187	22 07	DEC 07,1974	
1,954	386,140	22 11	DEC 07,1974	
2,021	386,140	22 15	DEC 07,1974	
2,089	386,140	22 19	DEC 07,1974	30 GPM ANNULUS
2,156	386,140	22 23	DEC 07,1974	
2,223	386,093	22 27	DEC 07,1974	
2,291	386,140	22 31	DEC 07,1974	
2,358	386,046	22 35	DEC 07,1974	60 GPM ANNULUS
2,426	386,046	22 40	DEC 07,1974	
2,493	386,046	22 44	DEC 07,1974	
2,560	386,093	22 48	DEC 07,1974	
2,628	386,140	22 52	DEC 07,1974	



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO, 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,695	386,093	22 56	DEC 07, 1974	
2,762	386,093	23 00	DEC 07, 1974	
2,830	386,093	23 04	DEC 07, 1974	
2,897	386,234	23 08	DEC 07, 1974	
2,965	386,093	23 12	DEC 07, 1974	
3,032	386,093	23 16	DEC 07, 1974	
3,099	386,046	23 20	DEC 07, 1974	
3,167	386,046	23 24	DEC 07, 1974	END FLOW

II B-1666

48 POINTS REPORTED THIS RUN

PAGE 5



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO. 1

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	386,046	23 24	DEC 07, 1974	FINAL SHUT IN
.058	386,046	23 27	DEC 07, 1974	UNSEAT PACKER
.117	386,140	23 31	DEC 07, 1974	END MPT NO 1

II B-1667

3 POINTS REPORTED THIS RUN

PAGE 6



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT  
GAUGE DEPTH IS 1295 INSIDE D, P.  
TEST INTERVAL IS FROM 1280 FT.  
( BOTTOM PACKER DEPTH ) TO 1470 FT. T. D.  
GROUND LEVEL REFERENCE IS 7036 FT.

II B-166S

91 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	335.215	00 24	DEC 08, 1974	MPT NO.2 OPEN
.092	335.215	00 29	DEC 08, 1974	TEST DEPTH
.183	335.027	00 35	DEC 08, 1974	1295 FT.

II B-1669

3 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	335.027	00 35	DEC 08, 1974	SHUT IN
.067	335.074	00 39	DEC 08, 1974	
.133	334.699	00 43	DEC 08, 1974	
.200	334.417	00 47	DEC 08, 1974	
.267	334.370	00 51	DEC 08, 1974	
.333	334.323	00 55	DEC 08, 1974	
.400	334.370	00 59	DEC 08, 1974	
.467	334.370	01 03	DEC 08, 1974	
.533	334.323	01 07	DEC 08, 1974	
.600	334.511	01 11	DEC 08, 1974	
.667	335.778	01 15	DEC 08, 1974	
.733	335.356	01 19	DEC 08, 1974	
				END SHUT IN

II B-1670

12 POINTS REPORTED THIS RUN



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	335,356	01 19	DEC 08,1974	FINAL OPEN
,068	335,121	01 23	DEC 08,1974	
,135	335,074	01 27	DEC 08,1974	
,203	335,121	01 31	DEC 08,1974	
,270	335,121	01 35	DEC 08,1974	
,338	335,215	01 39	DEC 08,1974	
,406	335,215	01 43	DEC 08,1974	
,473	335,215	01 47	DEC 08,1974	
,541	335,074	01 51	DEC 08,1974	
,608	335,168	01 56	DEC 08,1974	
,676	335,074	02 00	DEC 08,1974	
,744	335,168	02 04	DEC 08,1974	
,811	335,027	02 08	DEC 08,1974	
,879	335,027	02 12	DEC 08,1974	
,946	335,168	02 16	DEC 08,1974	
1,014	335,215	02 20	DEC 08,1974	
1,082	335,215	02 24	DEC 08,1974	
1,149	335,168	02 28	DEC 08,1974	
1,217	335,215	02 32	DEC 08,1974	
1,285	335,121	02 36	DEC 08,1974	
1,352	335,262	02 40	DEC 08,1974	30 GPM ANNULUS
1,420	335,074	02 44	DEC 08,1974	
1,487	335,215	02 48	DEC 08,1974	
1,555	335,215	02 52	DEC 08,1974	
1,623	335,121	02 56	DEC 08,1974	
1,690	335,215	03 00	DEC 08,1974	
1,758	335,215	03 04	DEC 08,1974	
1,825	335,262	03 09	DEC 08,1974	
1,893	335,262	03 13	DEC 08,1974	
1,961	335,168	03 17	DEC 08,1974	
2,028	335,262	03 21	DEC 08,1974	
2,096	335,309	03 25	DEC 08,1974	
2,163	335,403	03 29	DEC 08,1974	
2,231	335,356	03 33	DEC 08,1974	
2,299	335,403	03 37	DEC 08,1974	
2,366	335,309	03 41	DEC 08,1974	
2,434	335,356	03 45	DEC 08,1974	
2,501	335,356	03 49	DEC 08,1974	
2,569	335,403	03 53	DEC 08,1974	
2,637	335,449	03 57	DEC 08,1974	





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,704	335,449	04 01	DEC 08,1974	
2,772	335,543	04 05	DEC 08,1974	
2,839	335,496	04 09	DEC 08,1974	60 GPM ANNULUS
2,907	335,590	04 13	DEC 08,1974	
2,975	335,543	04 17	DEC 08,1974	
3,042	335,590	04 22	DEC 08,1974	
3,110	335,731	04 26	DEC 08,1974	
3,177	335,825	04 30	DEC 08,1974	DECLINE
3,245	335,825	04 34	DEC 08,1974	
3,313	335,872	04 38	DEC 08,1974	
3,380	335,919	04 42	DEC 08,1974	
3,448	335,872	04 46	DEC 08,1974	
3,515	335,919	04 50	DEC 08,1974	5 GPM INSIDE
3,583	335,778	04 54	DEC 08,1974	DRILL PIPE
3,651	335,825	04 58	DEC 08,1974	
3,718	335,731	05 02	DEC 08,1974	
3,786	335,778	05 06	DEC 08,1974	
3,854	335,731	05 10	DEC 08,1974	10 GPM INSIDE
3,921	335,825	05 14	DEC 08,1974	DRILL PIPE
3,989	335,778	05 18	DEC 08,1974	
4,056	335,778	05 22	DEC 08,1974	
4,124	335,919	05 26	DEC 08,1974	
4,192	335,872	05 30	DEC 08,1974	30 GPM INSIDE
4,259	335,966	05 35	DEC 08,1974	DRILL PIPE
4,327	335,872	05 39	DEC 08,1974	
4,394	336,059	05 43	DEC 08,1974	
4,462	336,153	05 47	DEC 08,1974	DECLINE
4,530	336,106	05 51	DEC 08,1974	
4,597	336,294	05 55	DEC 08,1974	
4,665	336,247	05 59	DEC 08,1974	
4,732	335,966	06 03	DEC 08,1974	
4,800	336,013	06 07	DEC 08,1974	END FLOW

II B-1672

72 POINTS REPORTED THIS RUN

PAGE 5



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.2

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	336.013	06 07	DEC 08, 1974	FINAL SHUT IN
.078	335.919	06 12	DEC 08, 1974	
.156	335.825	06 16	DEC 08, 1974	
.233	336.669	06 21	DEC 08, 1974	END TEST MPT 2

II B-1073

4 POINTS REPORTED THIS RUN

PAGE 6



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR  
ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB    SORGHUM GULCH  
COUNTY/PARISH    RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 1201 FT. INSIDE D.P.

TEST INTERVAL IS FROM 1186 FT.

(BOTTOM PACKER DEPTH) TO 1470 FT. T.D.

GROUND LEVEL REFERENCE IS 7036 FT.

II B-1674

73 POINTS REPORTED THIS JOB

PAGE 1 OF 6 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	299,694	07 02	DEC 08, 1974	MPT NO.3 OPEN
.092	299,366	07 07	DEC 08, 1974	TEST DEPTH
.183	299,319	07 13	DEC 08, 1974	1201 FT.

II B-1675

3 POINTS REPORTED THIS RUN

PAGE 2





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	299,319	07 13	DEC 08,1974	SHUT IN
,071	299,366	07 17	DEC 08,1974	
,143	299,366	07 22	DEC 08,1974	
,214	299,225	07 26	DEC 08,1974	
,286	299,366	07 30	DEC 08,1974	
,357	299,413	07 34	DEC 08,1974	
,429	299,225	07 39	DEC 08,1974	
,500	299,225	07 43	DEC 08,1974	END SHUT IN

II B-1676

8 POINTS REPORTED THIS RUN

PAGE 3



JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	299,225	07 43	DEC 08,1974	FINAL OPEN
,067	299,272	07 47	DEC 08,1974	
,133	298,944	07 51	DEC 08,1974	
,200	298,944	07 55	DEC 08,1974	
,267	298,944	07 59	DEC 08,1974	
,333	298,991	08 03	DEC 08,1974	
,400	299,038	08 07	DEC 08,1974	20 GPM ANNULUS
,467	298,991	08 11	DEC 08,1974	
,533	298,991	08 15	DEC 08,1974	
,600	299,038	08 19	DEC 08,1974	
,667	299,084	08 23	DEC 08,1974	
,733	299,084	08 27	DEC 08,1974	40 GPM ANNULUS
,800	299,084	08 31	DEC 08,1974	
,867	299,038	08 35	DEC 08,1974	
,933	299,178	08 39	DEC 08,1974	
1,000	299,131	08 43	DEC 08,1974	
1,067	299,178	08 47	DEC 08,1974	60 GPM ANNULUS
1,133	299,131	08 51	DEC 08,1974	
1,200	299,131	08 55	DEC 08,1974	
1,267	299,131	08 59	DEC 08,1974	
1,333	299,225	09 03	DEC 08,1974	
1,400	299,225	09 07	DEC 08,1974	DECLINE
1,467	299,319	09 11	DEC 08,1974	
1,533	299,319	09 15	DEC 08,1974	
1,600	299,366	09 19	DEC 08,1974	
1,667	299,366	09 23	DEC 08,1974	
1,733	299,413	09 27	DEC 08,1974	
1,800	299,460	09 31	DEC 08,1974	
1,867	299,507	09 35	DEC 08,1974	
1,933	299,507	09 39	DEC 08,1974	5 GPM INSIDE
2,000	299,554	09 43	DEC 08,1974	DRILL PIPE
2,067	299,554	09 47	DEC 08,1974	
2,133	299,601	09 51	DEC 08,1974	
2,200	299,554	09 55	DEC 08,1974	
2,267	299,601	09 59	DEC 08,1974	10 GPM INSIDE
2,333	299,554	10 03	DEC 08,1974	DRILL PIPE
2,400	299,601	10 07	DEC 08,1974	
2,467	299,554	10 11	DEC 08,1974	
2,533	299,554	10 15	DEC 08,1974	
2,600	299,601	10 19	DEC 08,1974	20 GPM INSIDE



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,667	299,601	10 23	DEC 08,1974	DRILL PIPE
2,733	299,601	10 27	DEC 08,1974	
2,800	299,694	10 31	DEC 08,1974	
2,867	299,694	10 35	DEC 08,1974	19 GPM INSIDE
2,933	299,694	10 39	DEC 08,1974	DRILL PIPE
3,000	299,741	10 43	DEC 08,1974	
3,067	299,788	10 47	DEC 08,1974	
3,133	299,788	10 51	DEC 08,1974	
3,200	299,882	10 55	DEC 08,1974	DECLINE
3,267	299,882	10 59	DEC 08,1974	
3,333	299,882	11 03	DEC 08,1974	
3,400	299,929	11 07	DEC 08,1974	
3,467	299,929	11 11	DEC 08,1974	
3,533	299,976	11 15	DEC 08,1974	
3,600	299,976	11 19	DEC 08,1974	
3,667	300,023	11 23	DEC 08,1974	
3,733	300,023	11 27	DEC 08,1974	
3,800	299,929	11 31	DEC 08,1974	END FLOW

II B-1678

58 POINTS REPORTED THIS RUN





JOB NUMBER  
8PG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.3

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	299.929	11 31	DEC 08, 1974	FINAL SHUT IN
.078	299.929	11 36	DEC 08, 1974	
.156	299.976	11 40	DEC 08, 1974	
.233	299.929	11 45	DEC 08, 1974	END TEST MPT 3

II B-1679

4 POINTS REPORTED THIS RUN

PAGE 6



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

PREPARED FOR

ATLANTIC RICHFIELD COMPANY

WELL NUMBER      FEDERAL SG-17  
FIELD/LEASE      TRACT CB    SORGHUM GULCH  
COUNTY/PARISH   RIO BLANCO  
STATE              COLORADO  
TYPE OF TEST      MPT DRILL STEM  
REFERENCE ELEV    GROUND LEVEL

ADDITIONAL INFORMATION

USED GAUGE NO. 209 WITH 2000 LB. ELEMENT

GAUGE DEPTH IS 1161 FT.

TEST INTERVAL IS FROM 1146 FT.

(BOTTOM PACKER DEPTH) TO 1470 FT. T. D.

FINAL HYDROSTATIC IS 285.15 PSI

GROUND LEVEL REFERENCE IS 7036 FT.

II B-1680

92 POINTS REPORTED THIS JOB

PAGE 1 OF 5 PAGES



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	282,333	12 58	DEC 08, 1974	MPT-4 OPEN
.078	282,333	13 03	DEC 08, 1974	TEST DEPTH
.156	282,333	13 07	DEC 08, 1974	1161 FEET
.233	282,333	13 12	DEC 08, 1974	END OPEN

II B-1681

4 POINTS REPORTED THIS RUN

PAGE 2



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0,000	282,333	13 12	DEC 08,1974	SHUT-IN
,063	282,521	13 16	DEC 08,1974	
,125	284,538	13 20	DEC 08,1974	
,188	284,304	13 23	DEC 08,1974	
,250	284,304	13 27	DEC 08,1974	
,313	284,304	13 31	DEC 08,1974	
,375	284,585	13 35	DEC 08,1974	
,438	284,585	13 38	DEC 08,1974	
,500	284,492	13 42	DEC 08,1974	
				END SHUT-IN

11 B-1682

9 POINTS REPORTED THIS RUN

PAGE 3





JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
0.000	284.492	13 42	DEC 08, 1974	FINAL OPEN
.067	284.445	13 46	DEC 08, 1974	
.134	284.445	13 50	DEC 08, 1974	
.201	284.492	13 54	DEC 08, 1974	
.268	284.538	13 58	DEC 08, 1974	
.334	284.492	14 02	DEC 08, 1974	
.401	284.538	14 06	DEC 08, 1974	
.468	284.538	14 10	DEC 08, 1974	20 GPM ANNULUS
.535	284.538	14 14	DEC 08, 1974	
.602	284.585	14 18	DEC 08, 1974	52 GPM ANNULUS
.669	284.632	14 22	DEC 08, 1974	
.736	284.492	14 26	DEC 08, 1974	DECLINE
.803	284.538	14 30	DEC 08, 1974	PUMP CALIB.
.869	284.585	14 34	DEC 08, 1974	
.936	284.679	14 38	DEC 08, 1974	
1.003	284.632	14 42	DEC 08, 1974	
1.070	284.726	14 46	DEC 08, 1974	
1.137	284.632	14 50	DEC 08, 1974	
1.204	284.632	14 54	DEC 08, 1974	
1.271	284.726	14 58	DEC 08, 1974	
1.338	284.679	15 02	DEC 08, 1974	
1.404	284.632	15 06	DEC 08, 1974	
1.471	284.679	15 10	DEC 08, 1974	
1.538	284.679	15 14	DEC 08, 1974	
1.605	284.679	15 18	DEC 08, 1974	
1.672	284.679	15 22	DEC 08, 1974	
1.739	284.679	15 26	DEC 08, 1974	
1.806	284.726	15 30	DEC 08, 1974	
1.873	284.726	15 34	DEC 08, 1974	
1.940	284.679	15 38	DEC 08, 1974	
2.006	284.679	15 42	DEC 08, 1974	
2.073	284.726	15 46	DEC 08, 1974	21 GPM ANNULUS
2.140	284.726	15 50	DEC 08, 1974	
2.207	284.820	15 54	DEC 08, 1974	
2.274	284.820	15 58	DEC 08, 1974	
2.341	284.820	16 02	DEC 08, 1974	
2.408	284.867	16 06	DEC 08, 1974	
2.475	284.867	16 10	DEC 08, 1974	39 GPM ANNULUS
2.541	284.961	16 14	DEC 08, 1974	
2.608	284.961	16 18	DEC 08, 1974	



JOB NUMBER  
SPG-11210-R

DATE OF JOB  
12-7-74 TO 12-8-74

GAUGE/RUN NUMBER  
209 MPT NO.4

DATE OF RUN  
12-14-74

SPERRY-SUN  
PRECISION SUBSURFACE PRESSURE GAUGE REPORT

DELTA TIME	PRESSURE (PSI)	TIME HR MIN	DATE	COMMENTS
2,675	284.961	16 23	DEC 08,1974	
2,742	285.102	16 27	DEC 08,1974	
2,809	285.195	16 31	DEC 08,1974	61 GPM ANNULUS
2,876	285.148	16 35	DEC 08,1974	
2,943	285.242	16 39	DEC 08,1974	
3,010	285.195	16 43	DEC 08,1974	
3,076	285.289	16 47	DEC 08,1974	
3,143	285.242	16 51	DEC 08,1974	DECLINE
3,210	285.195	16 55	DEC 08,1974	
3,277	285.336	16 59	DEC 08,1974	
3,344	285.242	17 03	DEC 08,1974	
3,411	285.852	17 07	DEC 08,1974	
3,478	286.087	17 11	DEC 08,1974	5 GPM INSIDE
3,545	286.181	17 15	DEC 08,1974	DRILL PIPE
3,612	286.275	17 19	DEC 08,1974	
3,678	286.368	17 23	DEC 08,1974	
3,745	286.744	17 27	DEC 08,1974	
3,812	286.791	17 31	DEC 08,1974	11 GPM INSIDE
3,879	287.025	17 35	DEC 08,1974	DRILL PIPE
3,946	286.885	17 39	DEC 08,1974	
4,013	286.978	17 43	DEC 08,1974	10 GPM INSIDE
4,080	287.025	17 47	DEC 08,1974	DRILL PIPE
4,147	287.166	17 51	DEC 08,1974	11 GPM INSIDE
4,213	287.213	17 55	DEC 08,1974	DRILL PIPE
4,280	287.401	17 59	DEC 08,1974	20 GPM INSIDE
4,347	287.354	18 03	DEC 08,1974	DRILL PIPE
4,414	287.307	18 07	DEC 08,1974	
4,481	287.307	18 11	DEC 08,1974	18 GPM INSIDE
4,548	287.213	18 15	DEC 08,1974	DRILL PIPE
4,615	287.025	18 19	DEC 08,1974	CONTINUED
4,682	286.885	18 23	DEC 08,1974	18 GPM TO KEEP
4,749	286.509	18 27	DEC 08,1974	WATER TO SURF.
4,815	286.228	18 31	DEC 08,1974	
4,882	285.899	18 35	DEC 08,1974	
4,949	285.524	18 39	DEC 08,1974	
5,016	285.383	18 43	DEC 08,1974	
5,083	285.383	18 47	DEC 08,1974	
5,150	285.242	18 51	DEC 08,1974	
5,217	285.195	18 55	DEC 08,1974	END TEST MPT-4

II B-1684

79 POINTS REPORTED THIS RUN



MPT Series 2 - SG-17







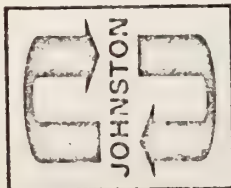


PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		272	364.7	282.9	294.8	310.1	339.2
		274	364.7	282.9	294.8	310.1	339.2
		276	364.7	282.9	294.8	310.1	339.2
		278	361.8	282.9	294.8	310.1	339.2
		280	359.0	282.9	294.8	310.1	339.2
		282	356.4	282.9	294.8	310.1	339.2
		284	354.2	282.6	294.8	310.1	339.2
		286	351.7	282.3	294.8	310.1	339.2
		288	348.9	282.3	294.8	310.1	339.2
		290	346.6	282.3	294.8	310.1	339.2
		292	344.4	281.9	294.8	310.1	339.2
		294	342.2	281.9	294.8	310.1	339.2
		296	340.6	281.9	294.8	310.1	339.2
		298	338.7	281.9	294.8	310.1	339.2
		300	337.1	281.9	294.8	310.1	339.2
		302	335.5	281.9	294.8	310.1	339.2
		304	334.3	281.9	294.8	310.1	339.2
		306	332.7	281.9	294.8	310.1	339.2
		308	331.4	281.9	294.8	310.1	339.2
		310	329.8	281.9	294.8	310.1	339.2
		312	328.9	281.9	294.8	310.1	339.2
		314	327.3	281.6	294.8	310.1	339.2
		316	326.0	281.6	294.8	310.1	339.2
		318	325.1	281.6	294.8	310.1	339.2
			288.0	301.0	313.9	329.1	344.2
			282.0	298.8	308.2	325.5	343.9

FINISHED FALL-OFF.  
PULLED PACKER LOOSE.  
FINAL HYDROSTATIC (1-16-75)  
2358  
2359  
2359-0014





# JOHNSTON PRESSURE LOG\*

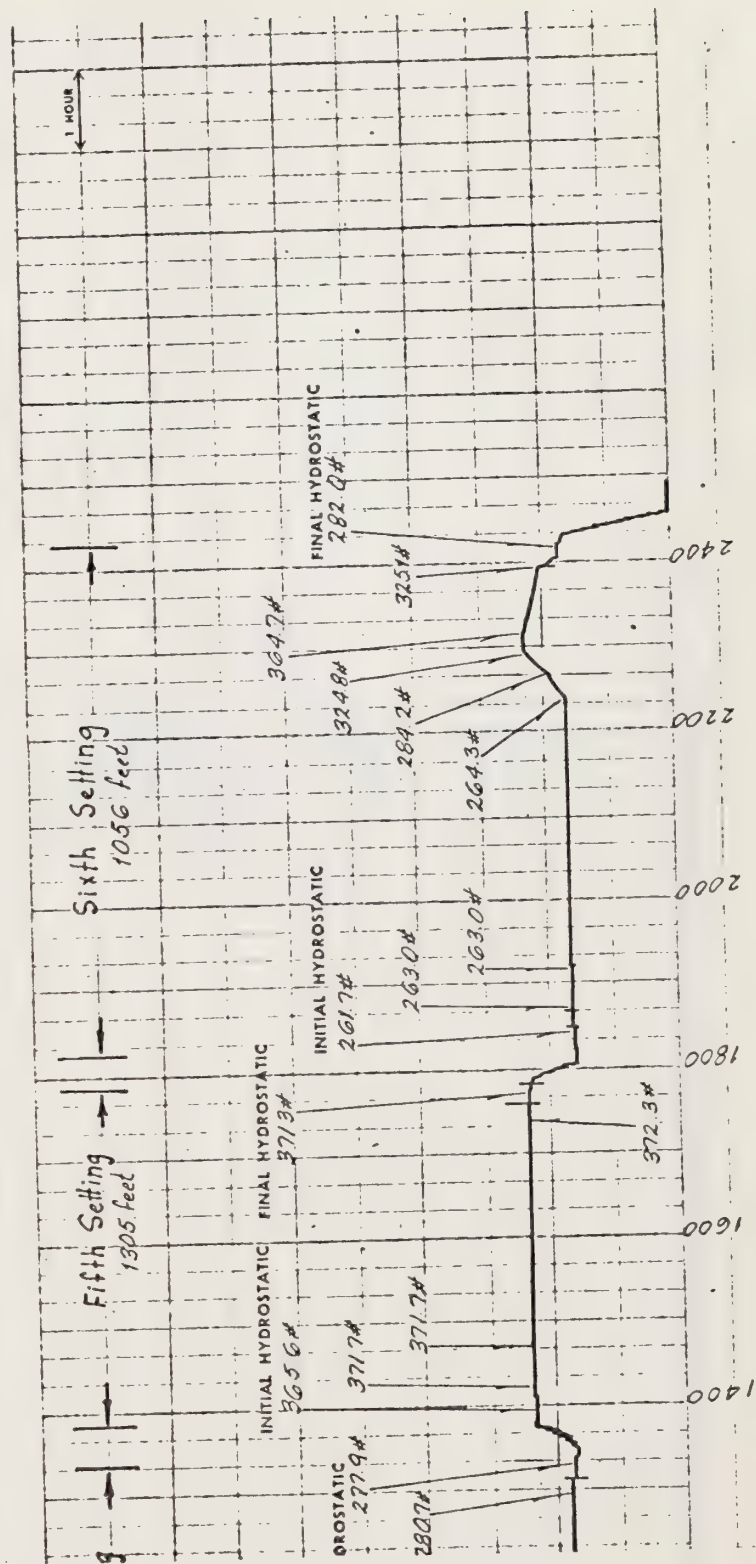
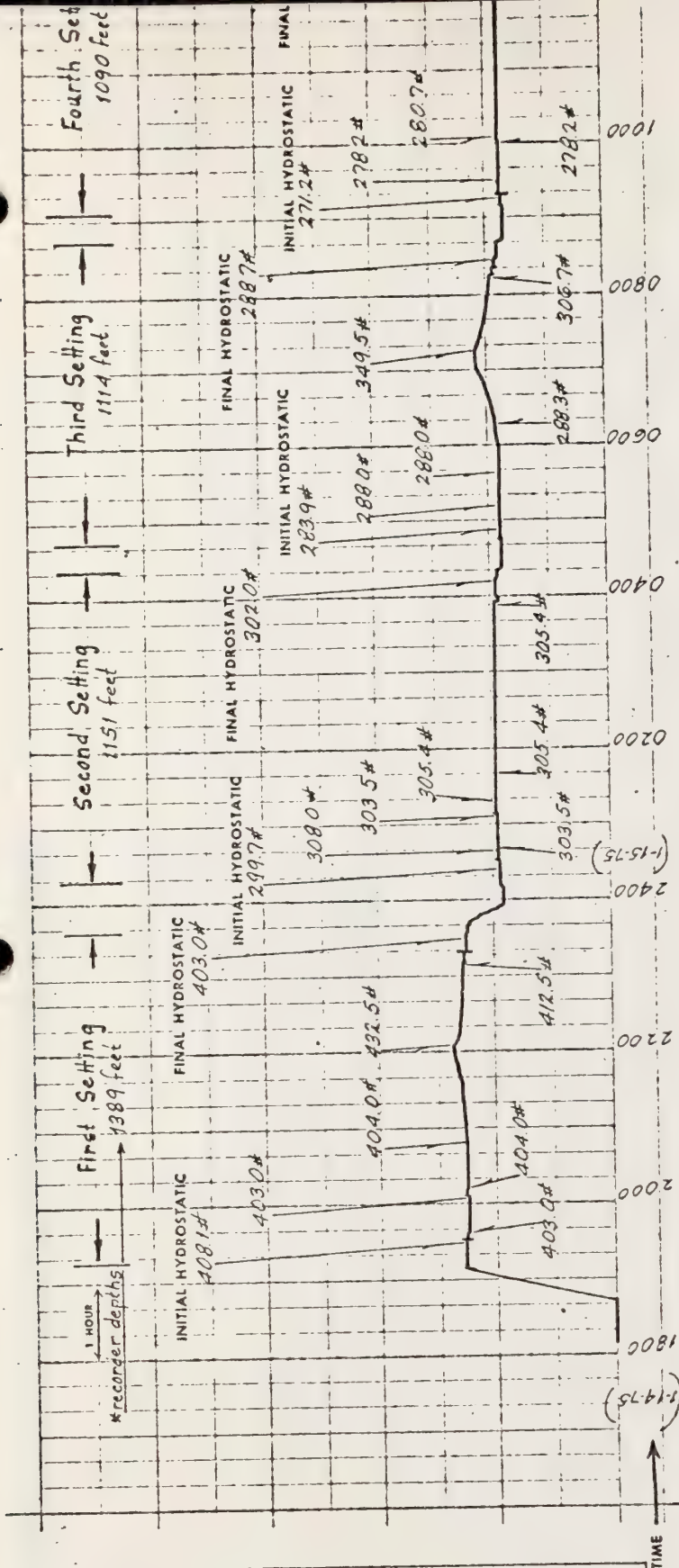
Field Report No. 09092C

Instrument:  
Number J-068

Capacity 1600 p.s.i.

Depth \* 5 sec settings

\* a continuous tracing of the original chart



II B-1727





FIELD REPORT NO.

09092 C

CAPACITY

1600#

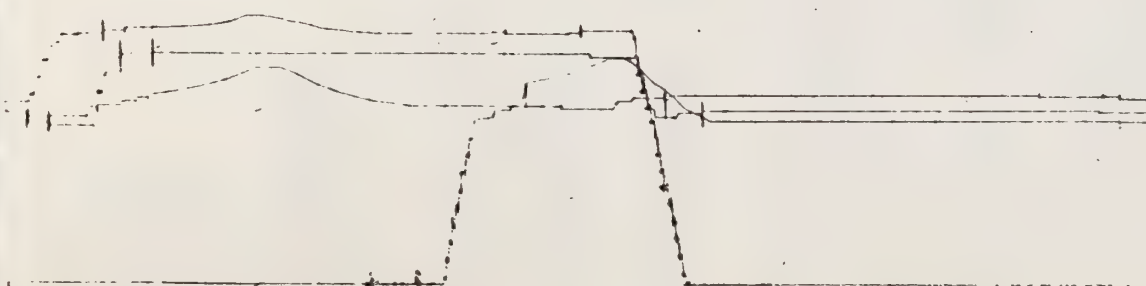
RECORDER NO.

J-068

REPORTS REQUESTED

14+

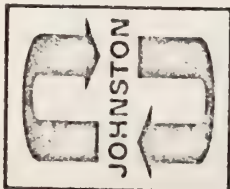
J068  
Series #3



II B-1729







# PRESSURE LOG\*

Field Report No. 09092 C

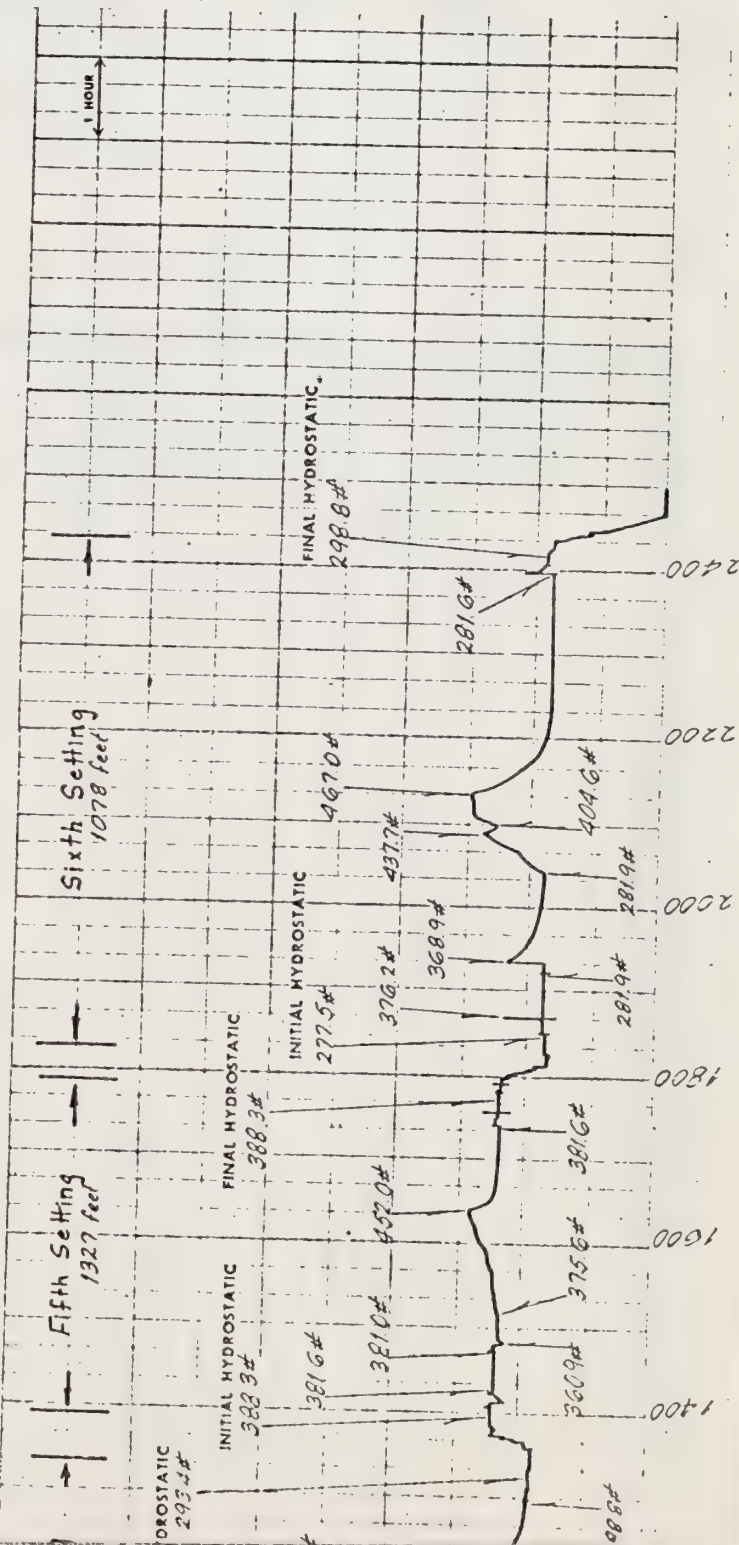
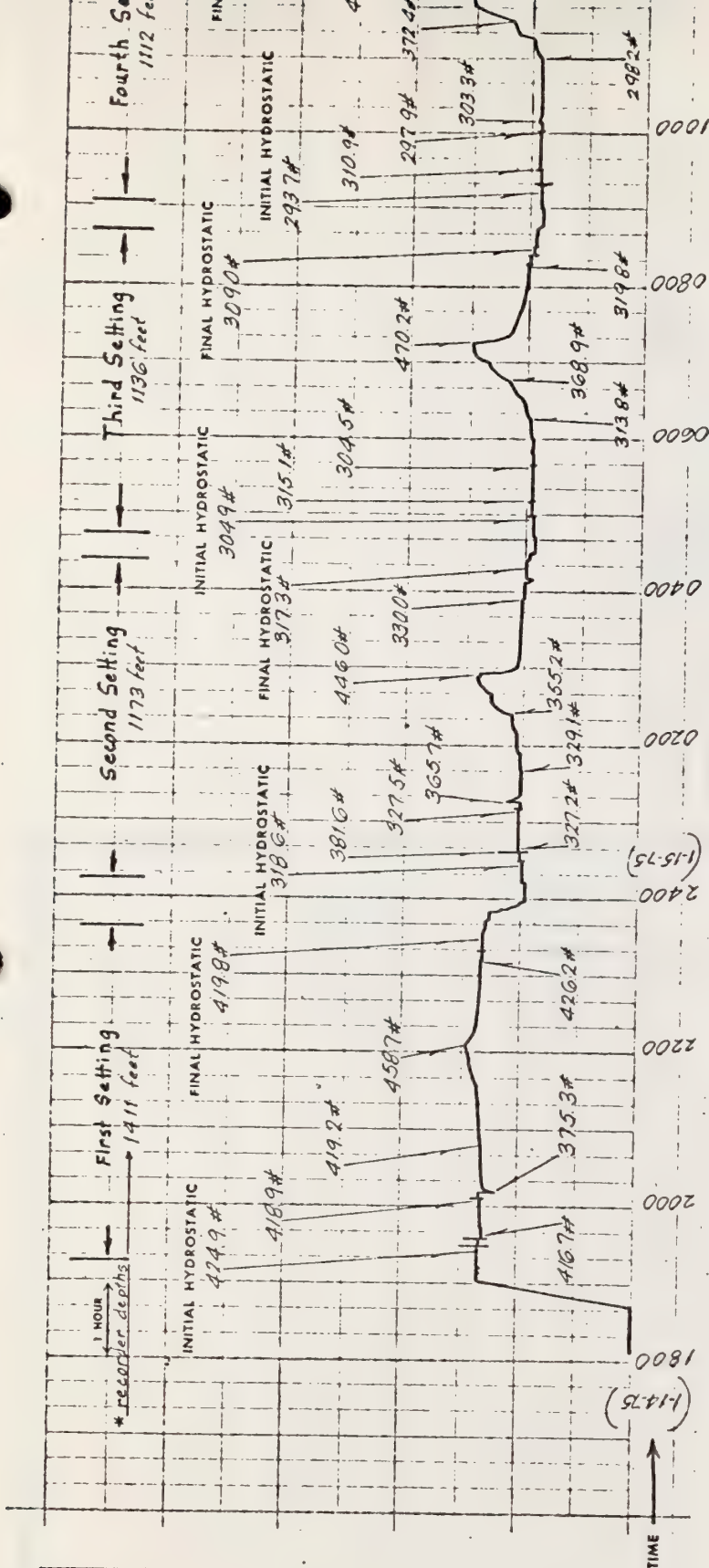
Instrument Number J-080

Capacity 1600 p.s.i.

Depth See settings\*

\* continuous tracing of the original chart

II P-1729







FIELD REPORT NO.

09092 C

CAPACITY

1600#

RECORDER NO.

J-080

REPORTS REQUESTED

14+

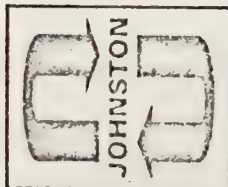
2

J080  
Series #3

II B-1730







# **PRESSURE LOG\***

Field Report No. 09092 C

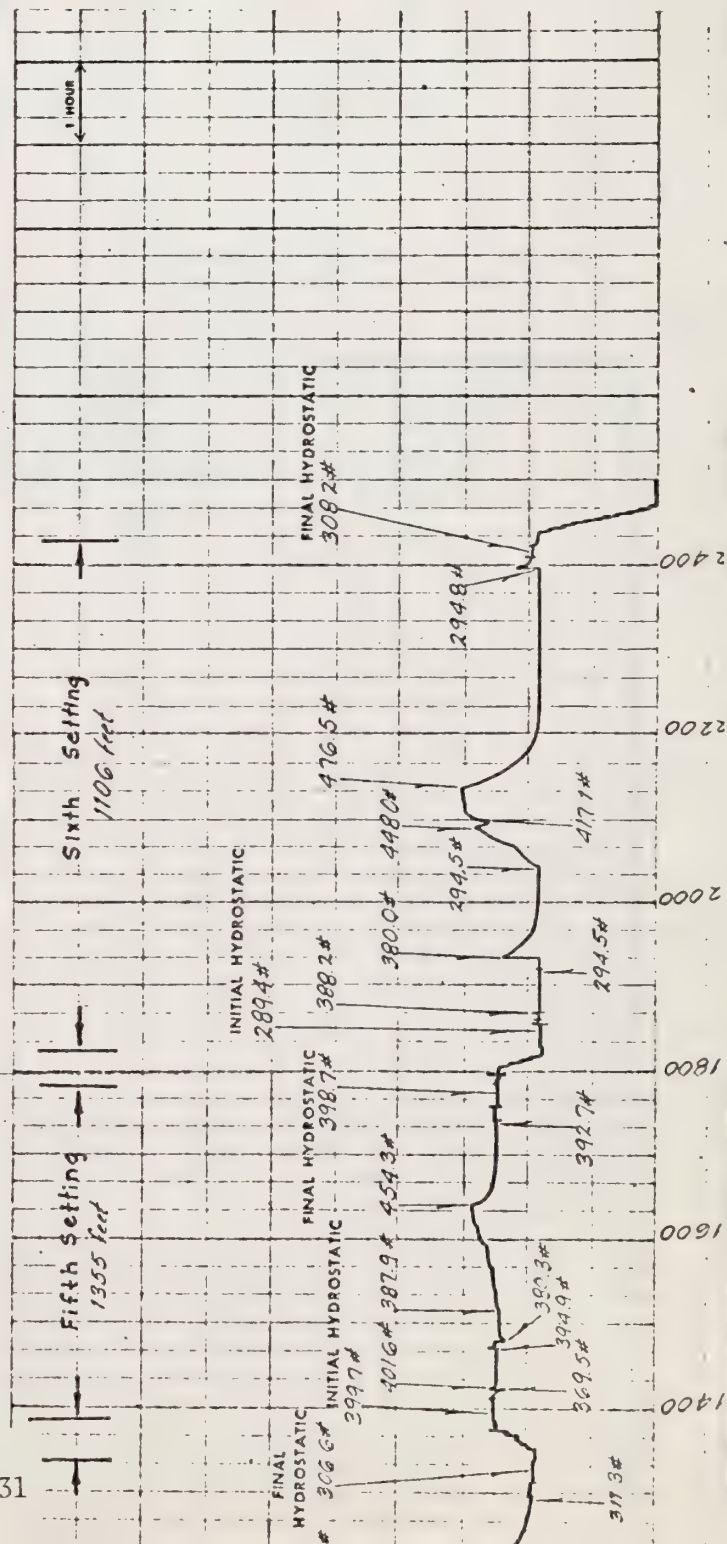
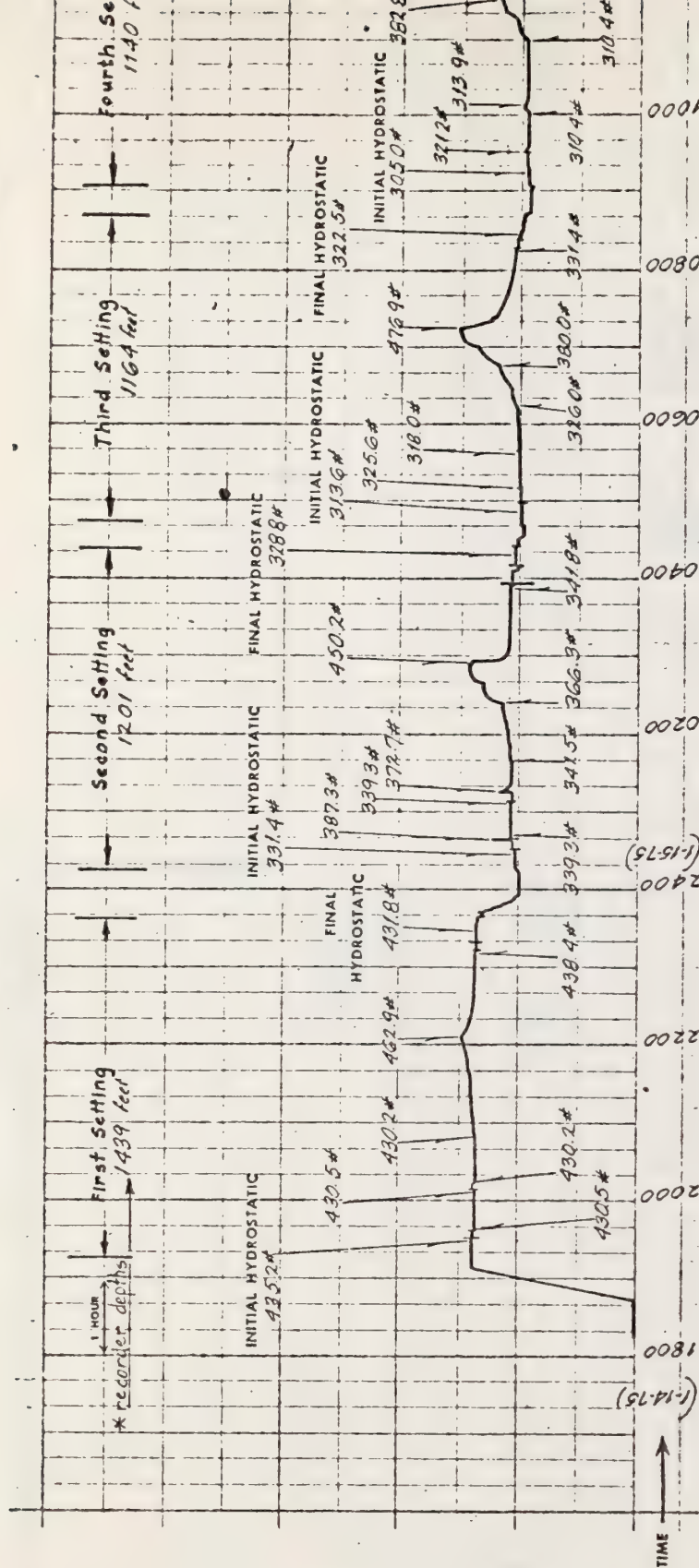
Instrument: J-251

Capacity 1600 p.s.i.

Depth see settings\*

\*a continuous tracing of the original chart

II B-1731









FIELD REPORT NO.

09092 C

CAPACITY

1600#

RECORDER NO.

J-251

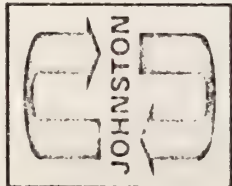
REPORTS REQUESTED

14+

J251  
Series #3

II B-1732





# PRESSURE LOG

Field Report No. 09092C

Instrument: Number J-114

Capacity 1600 p.s.i.

Depth see settings\*

II B-1733

\*a continuous tracing of the original chart

TIME

(1-17.5)

1500

2000

2200

2400

0200

0400

0600

0800

1000

1153

1 HOUR

\*recorder depth

First Setting  
1462 feet

Second Setting  
1224 feet

Third Setting  
1187 feet

Fourth Setting  
1153 feet

INITIAL HYDROSTATIC

4512#

FINAL HYDROSTATIC

4473#

4438#

4425#

4522#

INITIAL HYDROSTATIC

3458#

FINAL HYDROSTATIC

3442#

4013#

3529#

3868#

4663#

INITIAL HYDROSTATIC

3265#

FINAL HYDROSTATIC

3349#

3307#

3349#

3374#

3281#

3249#

3249#

Sixth Setting  
1129 feet

1 HOUR

INITIAL HYDROSTATIC

3036#

FINAL HYDROSTATIC

3255#

INITIAL HYDROSTATIC

4122#

FINAL HYDROSTATIC

4122#

4158#

4032#

4702#

3214#

3101#

3098#

4055#

3916#

4067#

3842#

35#

1400

1600

1800

2000

2200

2400

2600

2800

3000

3200

3400

3600





FIELD REPORT NO.

09092 C

CAPACITY

1600#

RECORDER NO.

J-114

REPORTS REQUESTED

14+

J 114  
Series #3







# **PRESSURE LOG\***

Field Report No. 09092C

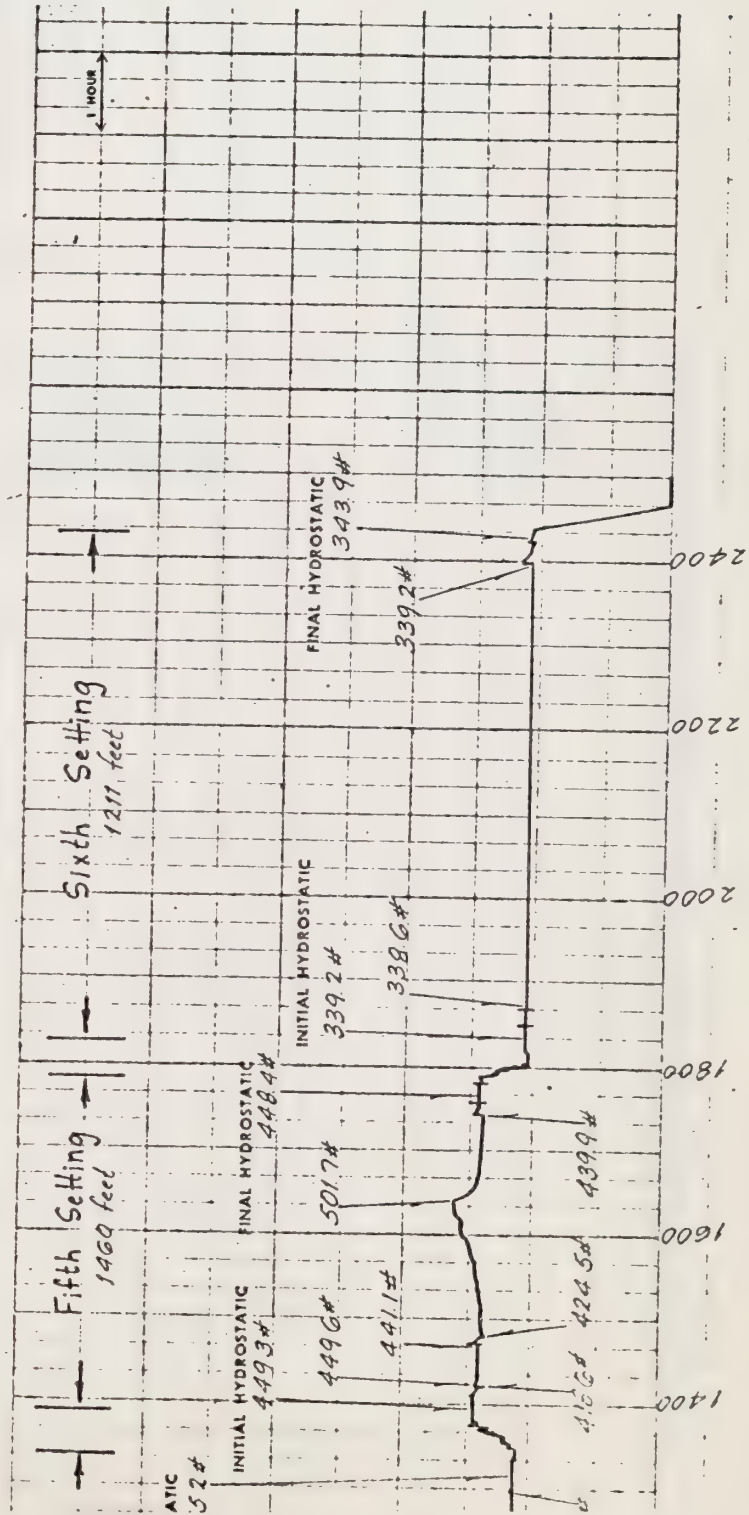
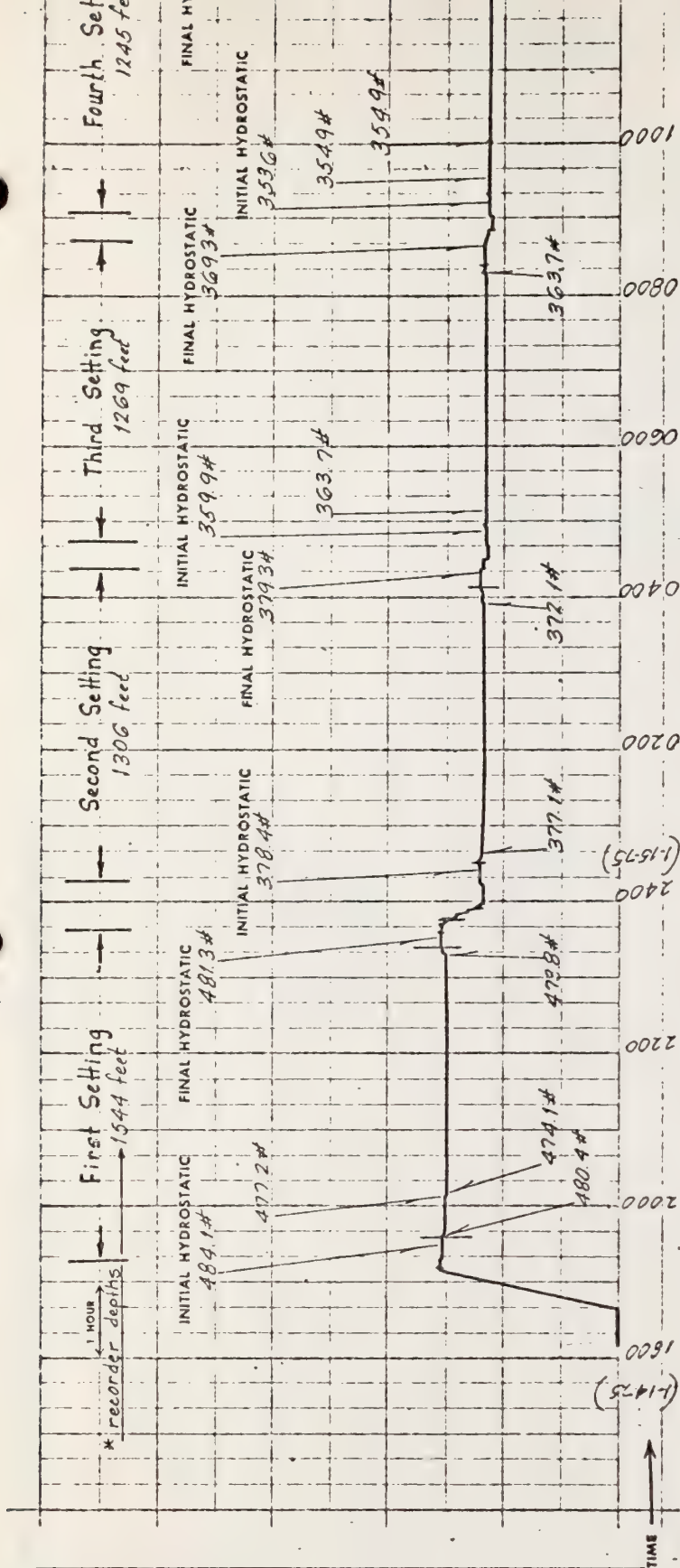
Instrument: J-493

Capacity: 1600 p.s.i.

Depth: see settings

II B-1735

\* continuous tracing of the original chart









FIELD REPORT NO.

09092 C

CAPACITY

1600#

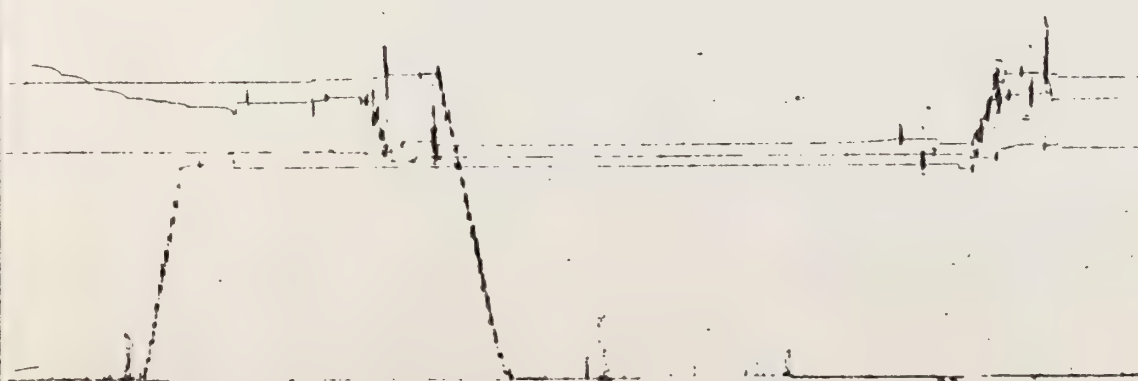
RECORDER NO.

J-493

REPORTS REQUESTED

14+

J493  
Series #3





MULTI-PACKER TEST SERIES NO. 2

SG-17



RECEIVED

FEB 14 1975

A. J. ROGERS

→ JRM

JOHNSTON

Small diameter

technical  
report

11 B-1686

MULTI-PACKER TEST SERIES #2  
F. R. #09091 C

COMPANY ATLANTIC-RICHFIELD  
COMPANY WELL FEDERAL S.G. #11  
TEST NO. 2  
COUNTY HIO PLANO  
STATE OHIO





## EQUIPMENT &amp; HOLE DATA

EQUIPMENT & HOLE DATA			
Type Test	M.F.E. SELECTIVE ZONE STRADDLE		
Formation Tested	GREEN RIVER / OPEN HOLE		
Elevation	7036		Ft.
Net Productive Interval	-		Ft.
Estimated Porosity	10-50 (ESTIMATE)		%
All Depths Measured From	GROUND LEVEL		
Total Depth	2460		Ft.
Main Hole/Casing Size	6 3/4"		
Rat Hole/Liner Size	-		
Drill Collar Length	-	I.D.	-
Drill Pipe Length	-	I.D.	-
Packer Depth(s)			Ft.

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface  
 Recovery: Cu. Ft. Gas \_\_\_\_\_  
           cc. Oil \_\_\_\_\_  
           cc. Water \_\_\_\_\_  
           cc. Mud \_\_\_\_\_  
           Tot. Liquid cc. \_\_\_\_\_  
 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm

Mud Type	AIR MIST	Wt.	-
Viscosity	-	Water Loss	- C.C.
Resist: of Mud	- @ - °F;	of Filtrate	- @ - °F
Chloride Content	-		PPM

[illegible]

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

County RIO BLANCO State COLORADO 11 B-1687  
 Technician BURNS (VERNAL) Test Approved By MR. JERRY L. BUSSELL Field Report No. 09091 C  
 No. Reports Requested 14 (13x)



MULTI-PACKER TEST SERIES #2

FIELD REPORT #09091 C

## EQUIPMENT SEQUENCE

<u>COMPONENTS</u>	<u>SIZE / TYPE</u>	<u>LENGTH</u>
DRILL PIPE	3.50" / RIF.	
DRILL COLLAR	4.75" / O.D.	
RECORDER	2 7/8" / FH SPERRY-SUN	
CIRCULATING SUB	4 3/4" / FH	1.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
M.F.E. TOOL	5" / JOHNSTON DELAY	10.00'
M.F.E. BY-PASS	5" / HYDRAULIC	4.00'
JARS	4 3/4" / HS-1	4.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
SAFETY JOINT	4 3/4" / BOWEN	2.00'
SAFETY SEAL & PACKER	5 3/4" / BOB-TAIL	10.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
PERFORATED ANCHOR		12.00'
BLANK-OFF SUB & PACKER	5 3/4" / FH	6.00'
RECORDER	4 7/8" / J-200 JOHNSTON	6.00'
PERFORATED ANCHOR		
PACKER	5 3/4" / BOB-TAIL	
BLANK-OFF SUB	4 3/4" / FH	
SELECTIVE ZONE ANCHORING		
DEVICE	5 3/4" / HW	
RECORDER	4 7/8" / J-200 JOHNSTON	



## MULTI-PACKER TEST SERIES #2

FIELD REPORT #09091 C

<u>ZONE</u>	<u>PACKER DEPTHS</u>			<u>SELECTIVE ZONE</u>	<u>SETTING</u>
	<u>TOP</u>	<u>2ND</u>	<u>3RD</u>	<u>ANCHOR DEPTH</u>	
#1	1362'	1386'	1410'	1427'	1
#2	ATTEMPTS TO SET SELECTIVE ANCHORING DEVICE FAILED.				-
#3	1184'	1208'	1232'	1249'	2

NEXT ATTEMPT TO SET SELECTIVE ANCHORING DEVICE FAILED. PULLED OUT OF HOLE.

INSTRUMENT NUMBER	J-068	J-080	J-251	J-114	J-493
CAPACITY	1600#	1600#	1600#	1600#	1600#
INSIDE-OUTSIDE	OUTSIDE	INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
CLOCK CAPACITY - HOURS	96	96	96	96	96

<u>ZONE NUMBER</u>	<u>SETTING NUMBER</u>	<u>D E P T H S</u>				
1	1	1329'	1351'	1379'	1402'	1429'
3	2	1151'	1173'	1201'	1224'	1251'









## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068				INSTRUMENT # J-080				INSTRUMENT # J-251				INSTRUMENT # J-114				INSTRUMENT # J-493			
			PRESSURE(P.S.I.G.)				PRESSURE(P.S.I.G.)				PRESSURE(P.S.I.G.)				PRESSURE(P.S.I.G.)				PRESSURE(P.S.I.G.)			
STARTED INJECTING 10 GAL./MIN.	1155	82	381.7				392.9				403.2				419.1				426.8			
		84	381.7				392.9				403.2				419.1				426.8			
		86	381.7				392.9				403.2				419.1				426.8			
		88	381.7				393.2				403.2				419.1				426.8			
		90	381.7				393.2				403.2				419.1				426.8			
		92	381.7				393.5				403.2				419.1				426.8			
		94	381.7				394.2				403.2				419.1				426.8			
		96	381.7				394.2				403.2				419.1				426.8			
		98	381.7				394.2				403.2				419.1				426.8			
		100	381.7				394.2				403.2				419.1				426.8			
		102	383.0				394.8				409.3				423.3				428.3			
		104	383.3				395.5				409.3				423.3				428.3			
		106	383.7				395.5				409.3				423.3				428.3			
		108	384.0				395.8				409.3				423.3				428.3			
		110	384.0				396.1				409.6				423.3				428.3			
		112	384.0				396.1				409.6				423.3				428.3			
		114	384.0				396.1				409.6				423.3				428.3			
		115	384.0				396.1				409.6				423.3				428.3			
		116	384.6				397.4				409.6				423.3				428.3			
		118	385.2				398.3				409.6				423.3				429.3			
STARTED INJECTING 20 GAL./MIN.	1210	120	385.6				398.7				410.0				423.3				431.8			
		122	386.2				399.0				410.0				423.3				431.8			
		124	386.5				399.3				410.0				423.3				431.8			
		126	386.5				399.6				410.0				423.3				431.8			
		128	386.8				399.9				410.0				423.3				431.8			
		130	387.2				399.9				410.0				423.3				431.8			
		132	387.5				401.9				413.8				426.6				432.7			
		134	388.4				403.8				413.8				426.6				433.4			
		136	389.1				404.7				413.8				426.6				434.3			
		138	389.7				405.4				414.1				426.6				434.9			
		140	390.0				406.3				414.1				426.6				435.6			
		142	390.7				406.6				414.1				426.6				436.2			
		144	390.7				406.6				414.1				426.6				436.5			
		145	390.7				406.6				414.1				426.6				436.5			
		146	391.3				408.6				416.0				429.8				437.5			
		148	391.6				409.2				416.0				429.8				438.1			
		150	392.2				409.8				416.7				429.8				438.4			
		152	392.6				410.2				417.0				429.8				438.7			
		154	392.9				410.5				417.3				429.8				439.0			
		156	393.2				410.8				417.9				429.8				439.3			
		158	393.2				411.1				418.6				429.8				439.7			
		160	393.5				411.1				419.2				429.8				440.3			
STARTED INJECTING 50 GAL./MIN.	1255	162	394.5				413.7				419.9				432.4				440.9			
		164	395.1				416.2				420.5				432.4				441.2			



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
STARTED INJECTING 60 GAL./MIN.	1310	166	395.7	418.1	421.1	432.4	441.9
		168	396.4	419.7	421.4	432.4	442.2
		170	397.0	420.7	421.4	432.4	442.8
		172	397.7	420.7	422.4	432.4	443.1
		174	398.0	421.0	423.7	432.4	443.1
		175	398.3	421.3	424.0	432.4	443.1
		176	398.6	423.9	424.3	435.3	443.8
		178	399.9	426.4	425.0	435.3	445.0
		180	400.8	428.0	425.9	435.3	446.0
		182	401.8	429.0	426.6	435.3	446.6
		184	402.4	429.6	426.9	437.9	447.2
		186	403.4	430.9	427.8	438.2	447.8
		188	404.0	431.6	428.2	438.2	448.5
		190	404.7	432.2	428.5	438.2	449.1
		192	405.0	432.5	428.5	440.2	449.4
		194	405.3	433.2	428.5	440.5	449.7
		196	405.3	433.5	428.5	440.5	449.7
		198	405.3	433.5	428.5	440.5	449.7
		200	405.3	433.5	428.5	440.5	449.7
		202	405.3	433.5	428.5	442.1	449.7
		204	405.3	433.5	428.5	442.1	449.7
		205	405.3	433.5	428.5	442.1	449.7
		206	404.7	424.8	425.6	439.8	447.2
		208	403.4	416.5	422.4	436.0	444.4
		210	401.5	413.0	420.2	433.1	441.6
		212	399.9	410.2	418.3	433.1	439.3
		214	398.3	408.2	417.0	431.1	437.8
		216	397.3	406.3	415.7	429.5	436.2
		218	396.4	404.7	414.7	428.5	435.3
		220	395.4	403.5	414.1	427.2	434.3
		222	394.8	402.5	413.5	426.9	433.4
		224	394.2	401.9	412.8	425.6	432.7
		226	393.8	400.9	412.2	425.6	432.1
		228	393.2	400.3	411.9	425.6	431.8
		230	392.9	399.6	411.5	424.6	431.5
		232	392.6	399.3	411.2	424.6	431.2
		234	392.6	399.0	410.9	424.6	430.8
		236	392.2	398.7	410.9	424.6	430.8
		238	391.9	398.7	410.9	423.3	430.5
		240	391.9	398.3	410.9	423.3	430.5
		242	391.6	398.0	410.6	423.3	430.2
		244	391.6	398.0	410.6	423.3	430.2
		246	391.6	398.0	410.6	423.3	430.2
FINISHED INJECTION - STARTED FALL-OFF.	1340						



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		248	391.3	397.7	410.6	423.3	430.2
		250	391.3	397.7	410.6	423.3	430.2
		252	391.3	397.7	410.3	423.3	430.2
		254	391.3	397.7	410.3	423.3	430.2
		256	391.0	397.7	410.3	423.3	430.2
		258	391.0	397.7	410.3	423.3	430.2
		260	391.0	397.7	410.3	423.3	430.2
		262	391.0	397.7	410.3	423.3	430.2
		264	391.0	397.7	410.3	423.3	430.2
		265	391.0	397.7	410.3	423.3	430.2
		-	388.1	394.8	406.4	418.8	426.8
		-	379.2	388.1	401.3	414.9	423.3
FINISHED FALL-OFF - CYCLED TOOL	1440		304.5	315.6	328.9	342.8	352.4
PULLED PACKER LOOSE	1449	0	314.0	318.5	375.5	355.4	371.0
FINAL HYDROSTATIC	1449-1507	2	305.7	319.1	331.4	350.2	351.2
		4	305.4	322.0	331.4	350.2	351.2
		6	305.4	320.4	331.7	350.2	349.0
		8	305.4	320.4	332.4	350.2	349.0
		10	305.4	320.4	332.4	350.2	349.0
		12	305.4	320.4	332.4	350.2	349.0
		14	305.4	320.4	332.4	350.2	349.0
		16	305.7	320.4	332.4	350.2	349.0
		18	305.7	320.4	332.4	350.2	349.0
		20	305.7	320.4	332.4	350.2	349.0
		22	305.7	320.4	332.4	350.2	349.0
		24	305.7	320.4	332.4	350.2	349.0
		26	305.7	320.4	332.4	350.2	349.0
		28	305.7	320.4	332.4	350.2	349.0
		30	305.7	320.4	332.4	350.2	349.0
		32	305.7	320.4	332.4	350.2	349.0
		34	305.7	320.4	332.4	350.2	349.0
		36	305.7	321.0	333.0	350.2	349.0
		38	305.7	321.0	333.0	350.2	349.0
	1737	40	306.4	347.6	356.6	365.7	352.4
		42	306.4	331.6	343.2	351.2	345.8
		44	306.4	325.5	338.1	351.2	345.8
		46	306.4	324.6	337.8	351.2	345.8
		48	306.4	324.2	337.5	351.2	345.8
		50	306.4	324.2	337.5	351.2	345.8
		52	306.4	324.2	337.5	351.2	345.8
		54	306.4	324.2	337.5	351.2	345.8
		56	306.4	324.2	337.5	351.2	345.8
INITIAL SHUT-IN - CYCLED TOOL							
TOOL RE-OPENED FOR WATER INFLOW.	1743						





## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

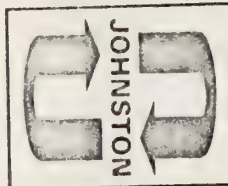
DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
STARTED INJECTING 5 GAL./MIN.	1805	58	306.4	324.2	337.5	351.2	344.6
		60	306.4	323.9	337.5	351.2	344.6
		62	306.4	323.9	337.5	351.2	344.6
		64	306.7	329.0	341.0	351.2	344.6
		66	306.7	330.9	342.6	351.2	344.2
		68	306.7	331.3	343.2	351.2	344.2
		70	306.7	331.9	344.5	351.2	344.2
		72	306.7	331.9	344.8	351.2	344.2
		74	306.7	332.2	345.5	351.2	344.2
		76	306.7	332.2	345.8	351.2	344.2
		77	306.7	332.2	346.1	351.2	344.2
		78	306.7	335.1	348.3	351.2	344.2
		80	306.7	336.7	349.6	351.2	344.2
STARTED INJECTING 10 GAL./MIN.	1820	82	306.7	337.3	349.6	351.2	344.2
		84	306.7	337.3	349.6	351.2	344.2
		86	306.7	337.7	349.6	351.2	344.2
		88	306.7	338.0	349.6	351.2	344.2
		90	306.7	338.0	349.6	351.2	344.2
		92	306.7	338.3	349.6	351.2	344.2
		94	306.7	350.7	361.7	351.2	344.2
		96	306.7	357.1	367.8	351.2	344.2
		98	306.7	360.3	370.7	351.2	344.2
		100	306.7	361.9	372.0	351.2	344.2
		102	306.7	362.9	372.9	351.2	344.2
		104	306.7	363.5	373.6	351.2	344.2
		106	306.7	364.2	374.2	351.2	344.2
STARTED INJECTING 30 GAL./MIN.	1850	107	306.7	364.5	374.5	351.2	344.2
		108	306.7	372.1	381.2	353.4	344.2
		110	306.7	383.6	391.8	353.4	344.2
		112	306.7	389.1	396.9	353.4	344.2
		114	306.7	389.1	396.9	353.4	344.2
		116	306.7	389.1	396.9	355.4	344.2
		118	306.7	389.1	396.9	355.4	344.2
		120	306.7	389.1	396.9	355.4	344.2
		122	306.7	389.1	396.9	355.4	344.2
		124	306.7	408.6	415.1	357.3	344.2
		126	306.7	413.4	419.9	357.3	344.2
		128	306.7	417.8	424.0	357.3	344.2
		130	306.7	420.7	426.6	359.3	344.2
		132	306.7	423.3	428.5	359.3	344.2
STARTED INJECTING 40 GAL./MIN.	1905	134	306.7	424.2	429.4	359.3	344.2
		136	306.7	424.5	429.7	359.3	344.2
		137	306.7	424.8	430.1	359.3	344.2
STARTED INJECTING 60 GAL./MIN.	1920						



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #2

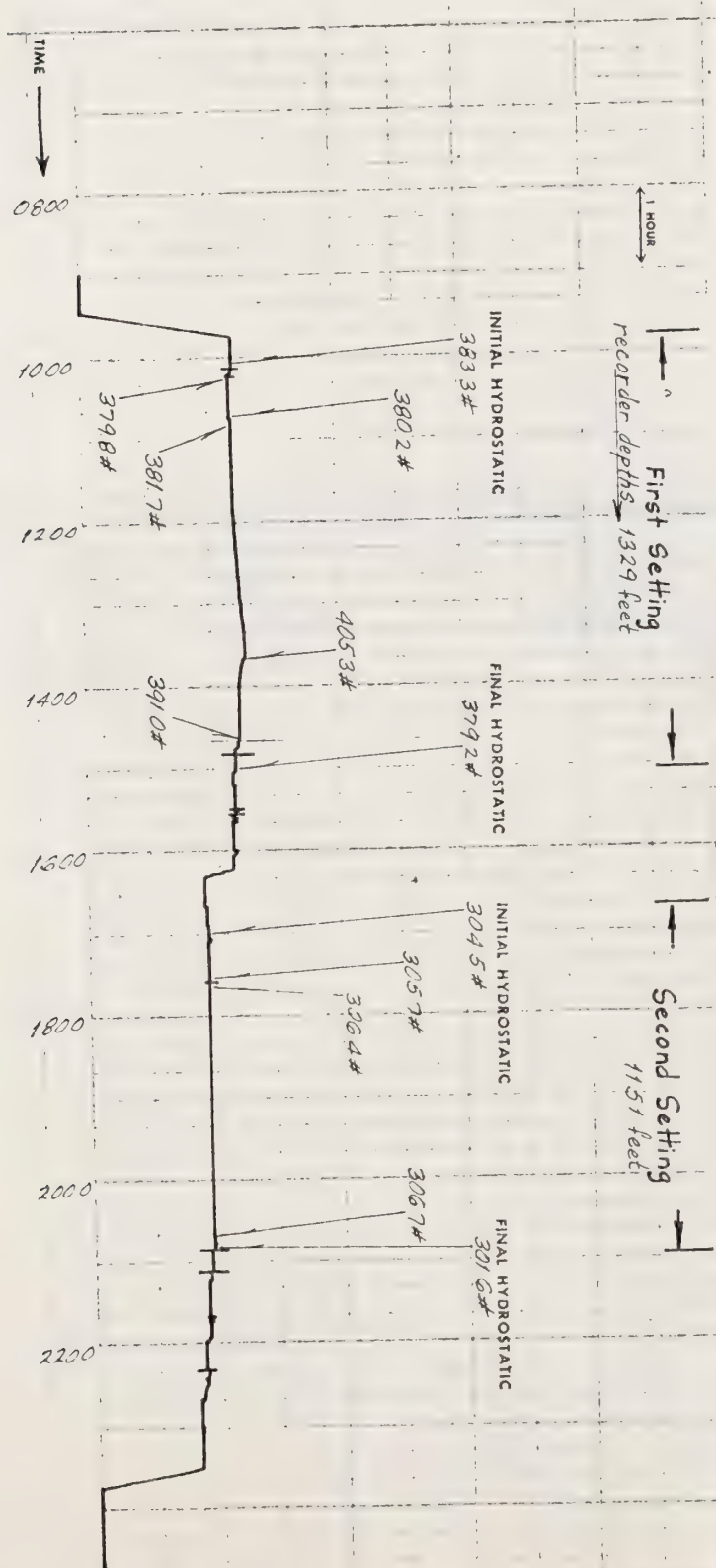
DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
STABILIZED INJECTION	1926	138	306.7	441.1	440.6	362.2	344.2
		140	306.7	458.1	458.8	363.8	344.2
		142	306.7	468.0	467.7	365.1	344.2
		143	306.7	472.1	471.9	365.1	344.2
		144	306.7	472.1	472.9	366.4	344.2
		146	306.7	466.4	470.3	366.4	344.2
		148	306.7	475.6	476.4	366.4	344.2
		150	306.7	477.2	478.0	367.4	344.2
		152	306.7	477.9	478.9	367.4	344.2
		154	306.7	478.2	478.9	367.4	344.2
		156	306.7	478.2	478.9	367.4	344.2
		158	306.7	478.2	479.2	367.4	344.2
		160	306.7	410.2	412.5	364.1	344.2
		162	306.7	356.5	371.6	362.5	344.2
		164	306.7	339.6	352.2	360.9	344.2
		166	306.7	334.1	346.1	359.9	344.2
		168	306.7	331.9	343.9	359.3	344.2
		170	306.7	330.9	342.9	358.6	344.2
FINISHED INJECTION - STARTED FALL-OFF.	1941	172	306.7	330.3	342.3	358.3	344.2
		174	306.7	329.7	341.6	358.0	344.2
		176	306.7	329.3	341.0	357.7	344.2
		178	306.7	328.7	340.7	357.7	344.2
		180	306.7	328.4	340.3	357.3	344.2
		182	306.7	328.4	340.0	357.3	344.2
		184	306.7	328.4	340.0	357.0	344.2
		186	306.7	328.1	339.7	357.0	344.2
		188	306.7	328.1	339.4	356.7	344.2
		190	306.7	327.8	339.1	356.7	344.2
		192	306.7	327.8	339.1	356.7	344.2
		194	306.7	327.8	339.1	356.7	344.2
		196	306.7	327.4	339.1	356.7	344.2
		198	306.7	327.4	339.1	356.7	344.2
		200	306.7	327.4	339.1	356.7	344.2
		202	306.7	327.4	339.1	356.0	344.2
		204	306.7	327.1	338.7	356.0	344.2
		206	306.7	327.1	338.7	356.0	344.2
FINISHED FALL-OFF - CYCLED TOOL. PULLED PACKER LOOSE FINAL HYDROSTATIC	2041	208	306.7	327.1	338.7	356.0	344.2
		210	306.7	327.1	338.7	356.0	344.2
		212	306.7	327.1	338.4	356.0	344.2
		214	306.7	327.1	338.4	356.0	344.2
		216	306.7	327.1	338.4	356.0	344.2
		218	306.7	326.8	338.4	356.0	344.2
		-	306.7	322.6	335.2	347.7	347.7
		-	301.6	313.7	323.4	341.5	349.0
		-	-	-	-	-	-
		-	-	-	-	-	-





# PRESSURE LOG \*

Field Report No. 09091 C  
Instrument: J-068  
Number: J-068  
Capacity: 1600 p.s.i.  
Depth: See settings  
\* a continuous tracing of the original chart







FIELD REPORT NO.

09091 C

CAPACITY

1600#

RECORDER NO.

J-068

REPORTS REQUESTED

14+

Series #2

II B-1697



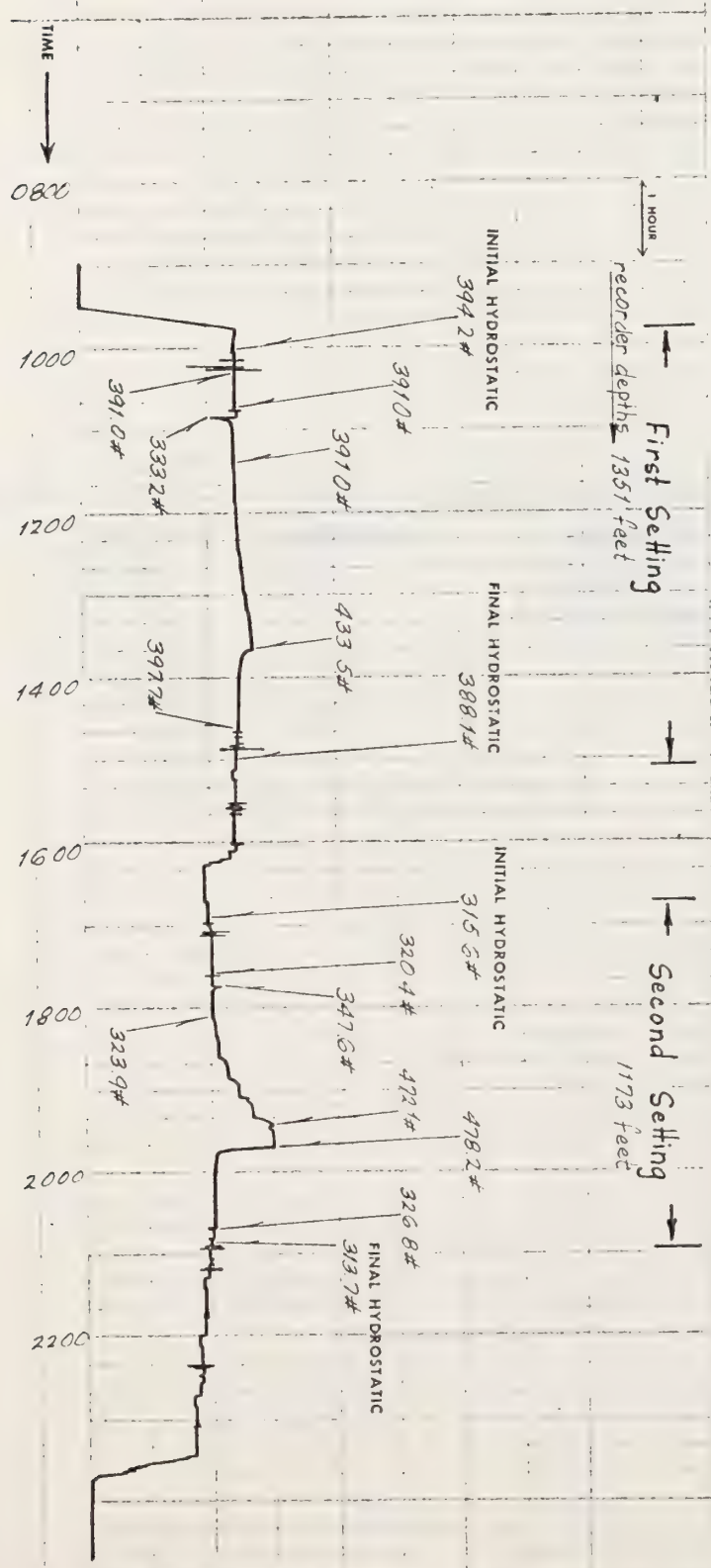




# PRESSURE LOG\*

Field Report No. 09091 C  
Instrument: J 080  
Number: \_\_\_\_\_  
Capacity 1600 p.s.i.  
Depth See settings

\* a continuous tracing of the original chart







FIELD REPORT NO.

09091 C  
CAPACITY

1600#

RECORDER NO.

J-080  
REPORTS REQUESTED

14+

JCRD  
Series B2

II B-1699





# PRESSURE LOG \*

Field Report No. 09091C

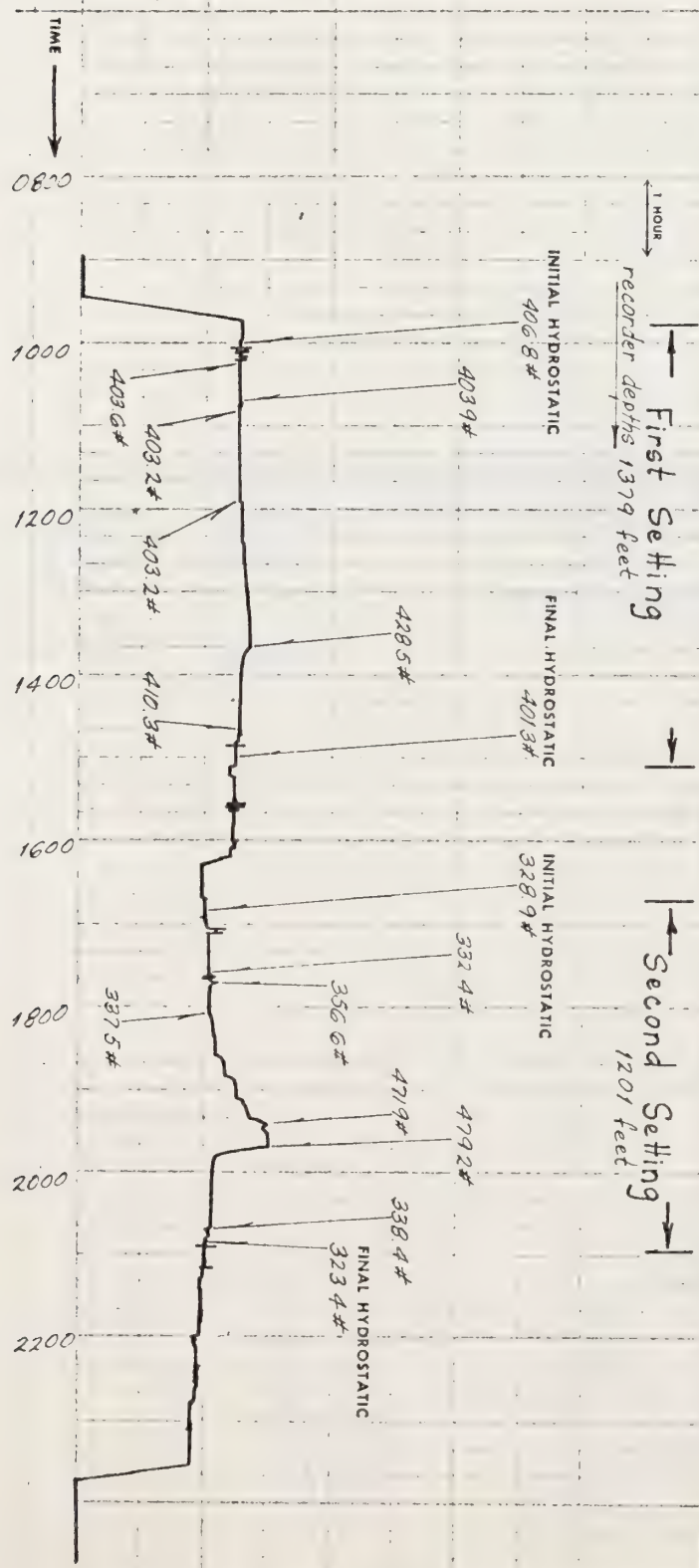
Instrument: J-251

Number: J-251

Capacity 1600 p.s.i.

Depth see settings

\* a continuous tracing of the original chart









FIELD REPORT NO.

09091 C

CAPACITY

1600#

RECORDER NO.

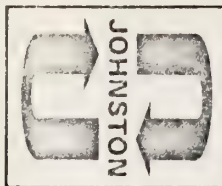
J-251

REPORTS REQUESTED

14+

Series #2



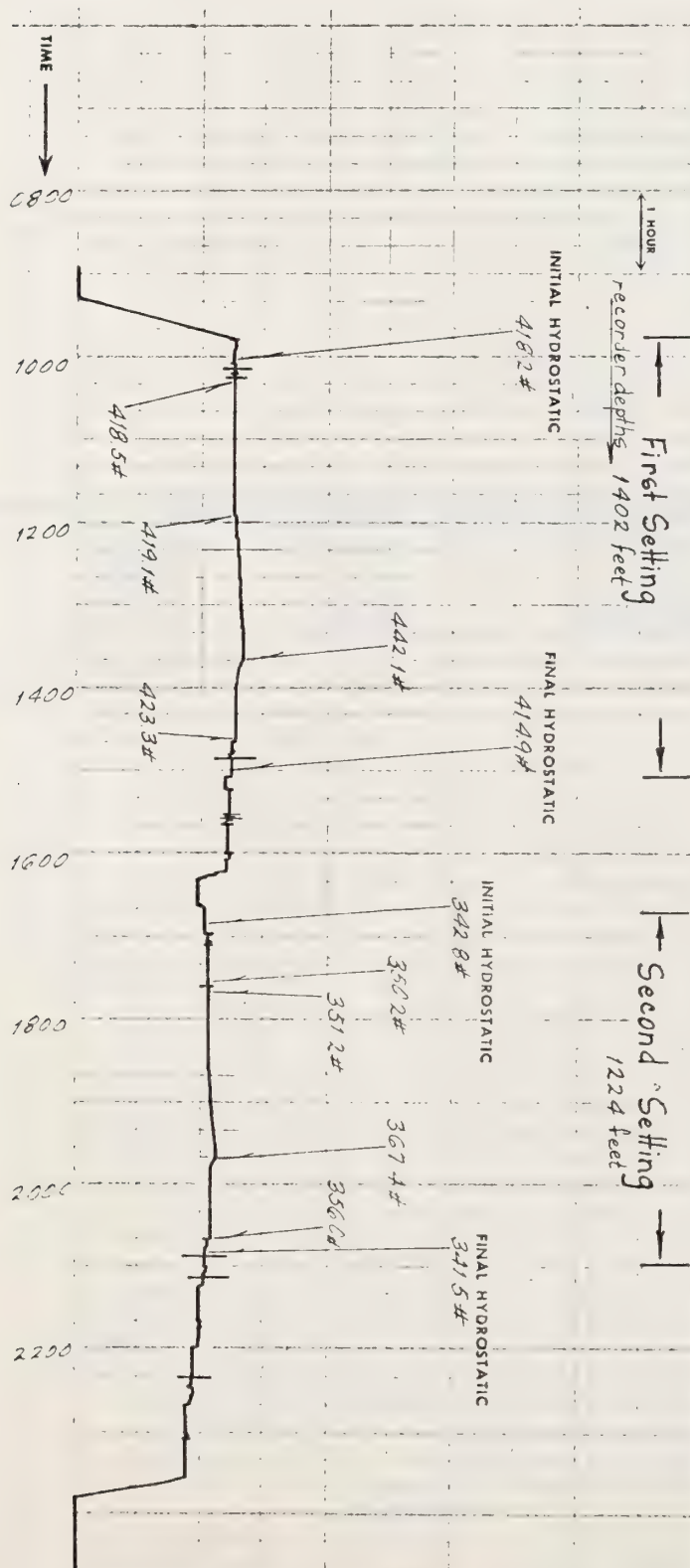


# PRESSURE LOG\*

Field Report No. 09091C  
Instrument: J-114

Capacity 1600 p.s.i.  
Depth See settings

\*a continuous tracing of the original chart







FIELD REPORT NO.

09091 C

CAPACITY

1600#

RECORDER NO.

J-114

REPORTS REQUESTED

14+

*J-114*  
*SERIES #2*

II B-1703





# PRESSURE LOG\*

Field Report No. 09091C

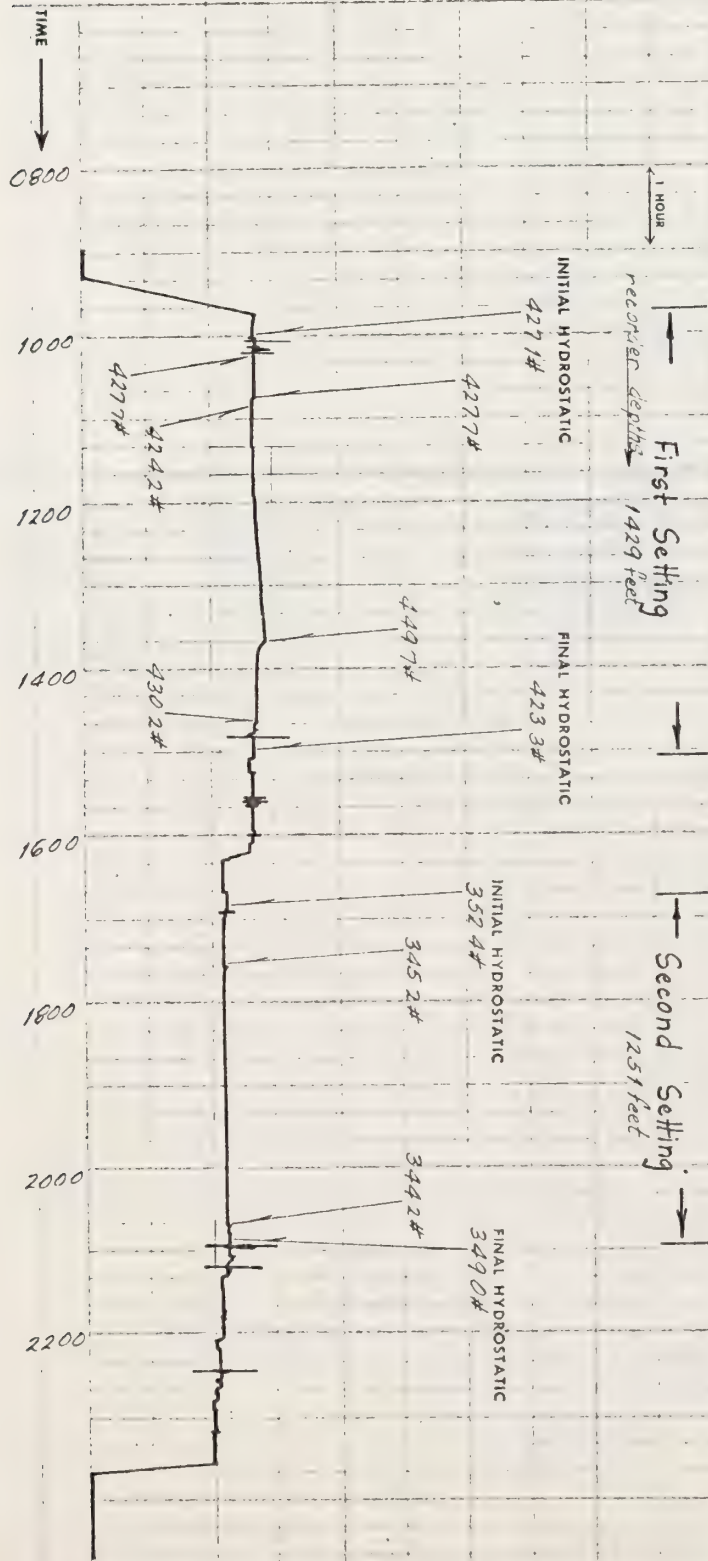
Instrument: J-493

Number: J-493

Capacity 1600 p.s.i.

Depth see settings

\* a continuous tracing of the original chart









FIELD REPORT NO.

09091 C

CAPACITY

1600#

RECORDER NO.

J-493

REPORTS REQUESTED

14+

Series #2

II B-1705



JRM

COMPANY ATLANTIC-RICHFIELD COMPANY WELL FEDERAL S.G. #17 TEST NO. 3 COUNTY RIO BLANCO STATE COLORADO

JOHNSTON

Schlumberger

technical  
report

II B-1706

MULTI-PACKER TEST SERIES #3  
F.R. #09092 C



## EQUIPMENT &amp; HOLE DATA

Type Test M.F.E. SELECTIVE ZONE STRADDLE

Formation Tested GREEN RIVER / OPEN HOLE

Elevation 7036 Ft.

Net Productive Interval \_\_\_\_\_ Ft.

Estimated Porosity \_\_\_\_\_ %

All Depths Measured From GROUND LEVEL

Total Depth 2460 Ft.

Main Hole/Casing Size 6 3/4"

Rat Hole/Liner Size -

Drill Collar Length \_\_\_\_\_ I.D. \_\_\_\_\_

Drill Pipe Length \_\_\_\_\_ I.D. \_\_\_\_\_

Packer Depth(s) \_\_\_\_\_ Ft.

Sampler Pressure \_\_\_\_\_ P.S.I.G. at Surface  
 Recovery: Cu. Ft. Gas \_\_\_\_\_  
           cc. Oil \_\_\_\_\_  
           cc. Water \_\_\_\_\_  
           cc. Mud \_\_\_\_\_  
           Tot. Liquid cc. \_\_\_\_\_  
 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_ cu. ft./bbl.

Mud Type	AIR MIST	Wt.	-	
Viscosity	-	Water Loss	-	C.C.
Resist. of Mud	" @ - °F;	of Filtrate	- @ - °F	
Chloride Content	-			PPM

## RESISTIVITY

CHLORIDE  
CONTENT

Recovery Water \_\_\_\_\_ @ \_\_\_\_\_ °F. \_\_\_\_\_ ppm

Recovery Mud \_\_\_\_\_ @ \_\_\_\_\_ °F.

Recovery Mud Filtrate \_\_\_\_\_ @ \_\_\_\_\_ °F. \_\_\_\_\_ ppm

Mud Pit Sample \_\_\_\_\_ @ \_\_\_\_\_ °F.

Mud Pit Sample Filtrate \_\_\_\_\_ @ \_\_\_\_\_ °F. \_\_\_\_\_ ppm

[illegible]

Remarks: \_\_\_\_\_

Address 1500 SECURITY LIFE BUILDING, 1600 GLENARM; DENVER, COLORADO 80202

Company ATLANTIC - RICHFIELD COMPANY Field SORGHUM GULCH  
Well FEDERAL S.G. #17 Location 436'FWL 181'FSL SEC.16-3s-96w

Test Interval MULTI-PACKER TEST SERIES #3 Test # 3 Date 1-14-75

County RIO BLANCO State COLORADO Field Report No. 09092 C

Technician BURNS (VERNAL) Test Approved By MR. JERRY L. BUSSELL No. Reports Requested 14 (13x)

II B-1707

Field Report No. 09092 C

No. Reports Requested 14 (13x)





MULTI-PACKER TEST SERIES #3

FIELD REPORT #09092 C

## EQUIPMENT SEQUENCE

<u>COMPONENTS</u>	<u>SIZE / TYPE</u>	<u>LENGTH</u>
DRILL PIPE	3.50" / RIF.	-
DRILL COLLAR	4.75" / O.D.	300.00'
RECORDER	SPERRY-SUN	18.00'
RECORDER	J-200 / JOHNSTON	6.00'
CIRCULATING SUB		1.00'
M.F.E. TOOL	JOHNSTON	10.00'
M.F.E. BY-PASS		4.00'
JARS	HS-1	4.00'
RECORDER	J-200 / JOHNSTON	6.00'
SAFETY JOINT		2.00'
PACKER	6.75"	10.00'
RECORDER AND SUB	SPERRY-SUN	2.00'
PERFORATED ANCHOR		12.00'
RECORDER	J-200 / JOHNSTON	6.00'
BLANK-OFF SUB		.60'
PACKER	6.75"	6.00'
RECORDER AND SUB	SPERRY-SUN	2.00'
PERFORATED ANCHOR		12.00'
RECORDER	J-200 / JOHNSTON	6.00'
BLANK-OFF SUB		.50'
PACKER	6.75"	6.00'
RECORDER AND SUB	SPERRY-SUN	2.00'
PERFORATED ANCHOR		12.00'
DRILL PIPE		30.15'
PERFORATED ANCHOR	4.75" / O.D.	22.00'
SELECTIVE ZONE ANCHORING DEVICE	6.75" / O.D.	6.00'
RECORDER	J-200 / JOHNSTON	4.00'



MULTI-PACKER TEST SERIES #3

FIELD REPORT #09092 C

<u>ZONE</u>	<u>PACKER DEPTHS</u>			<u>SELECTIVE ZONE</u>	<u>SETTING</u>
	<u>TOP</u>	<u>2ND</u>	<u>3RD</u>	<u>ANCHOR DEPTH</u>	
#1	1422'	1447'	1472'	1542'	1ST
#2	1338'	1363'	1388'	1458'	5TH
#3	1184'	1209'	1234'	1304'	2ND
#4	1147'	1172'	1197'	1267'	3RD
#5	1123'	1148'	1173'	1243'	4TH
#6	1089'	1114'	1139'	1209'	6TH

INSTRUMENT NUMBER	J-068	J-080	J-251	J-114	J-493
CAPACITY	1600#	1600#	1600#	1600#	1600#
INSIDE-OUTSIDE	OUTSIDE	INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
CLOCK CAPACITY - HOURS	96	96	96	96	96

<u>ZONE NUMBER</u>	<u>SETTING NUMBER</u>	<u>D E P T H S</u>				
1	1	1389'	1411'	1439'	1462'	1544'
2	5	1305'	1327'	1355'	1378'	1460'
3	2	1151'	1173'	1201'	1224'	1306'
4	3	1114'	1136'	1164'	1187'	1269'
5	4	1090'	1112'	1140'	1163'	1245'
6	6	1056'	1078'	1106'	1129'	1211'



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068				INSTRUMENT # J-080				INSTRUMENT # J-251				INSTRUMENT # J-114				INSTRUMENT # J-493			
			PRESSURE (P.S.I.G.)				PRESSURE (P.S.I.G.)				PRESSURE (P.S.I.G.)				PRESSURE (P.S.I.G.)				PRESSURE (P.S.I.G.)			
INITIAL HYDROSTATIC FOR 1ST SETTING (1-14-75) OPENED TOOL CLOSED TOOL FOR INITIAL SHUT-IN	1914-1929 1935 1936	-	408.1	424.9	435.2	484.1	403.0	416.7	430.5	480.4	451.2	435.2	484.1	451.2	435.2	484.1	451.2	435.2	484.1	451.2	435.2	484.1
		0	403.0	416.7	430.5	480.4	403.0	416.7	430.5	480.0	446.0	430.5	480.0	446.0	430.5	480.0	446.0	430.5	480.0	446.0	430.5	480.0
		1	403.0	416.7	430.5	479.4	403.0	416.7	430.5	479.4	444.8	430.5	479.4	444.8	430.5	479.4	444.8	430.5	479.4	444.8	430.5	479.4
		2	403.0	416.7	430.5	478.8	403.0	416.7	430.5	478.8	444.4	430.5	478.8	444.4	430.5	478.8	444.4	430.5	478.8	444.4	430.5	478.8
		4	403.0	416.7	430.5	478.5	403.0	416.7	430.5	478.5	444.1	430.5	478.5	444.1	430.5	478.5	444.1	430.5	478.5	444.1	430.5	478.5
		6	403.0	416.7	430.5	478.2	403.0	416.7	430.5	478.2	444.1	430.5	478.2	444.1	430.5	478.2	444.1	430.5	478.2	444.1	430.5	478.2
		8	403.0	416.7	430.5	477.8	403.0	416.7	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		10	403.0	417.9	430.5	477.8	403.0	417.9	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		12	403.0	417.9	430.5	477.8	403.0	417.9	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		14	403.0	418.3	430.5	477.8	403.0	418.3	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		16	403.0	418.3	430.5	477.8	403.0	418.3	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		18	403.0	418.6	430.5	477.8	403.0	418.6	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		20	403.0	418.6	430.5	477.8	403.0	418.6	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		22	403.0	418.6	430.5	477.8	403.0	418.6	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		24	403.0	418.6	430.5	477.8	403.0	418.6	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		26	403.0	418.9	430.5	477.8	403.0	418.9	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		28	403.0	418.9	430.5	477.8	403.0	418.9	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		30	403.0	418.9	430.5	477.8	403.0	418.9	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
INITIAL SHUT-IN - CYCLED TOOL  TOOL RE-OPENED FOR WATER INFLOW	2006  2011	31	403.0	418.9	430.5	477.8	403.0	418.9	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8	444.1	430.5	477.8
		32	405.9	421.4	436.2	474.1	405.9	421.4	436.2	474.1	446.4	436.2	474.1	446.4	436.2	474.1	446.4	436.2	474.1	446.4	436.2	474.1
		34	405.9	421.4	436.2	474.1	405.9	421.4	436.2	474.1	446.4	436.2	474.1	446.4	436.2	474.1	446.4	436.2	474.1	446.4	436.2	474.1
		36	405.9	375.3	436.2	474.1	405.9	375.3	436.2	474.1	445.7	436.2	474.1	445.7	436.2	474.1	445.7	436.2	474.1	445.7	436.2	474.1
		38	404.0	399.1	430.2	474.1	404.0	399.1	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		40	404.0	410.9	430.2	474.1	404.0	410.9	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		42	404.0	412.8	430.2	474.1	404.0	412.8	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		44	404.0	413.8	430.2	474.1	404.0	413.8	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		46	404.0	415.1	430.2	474.1	404.0	415.1	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		48	404.0	415.7	430.2	474.1	404.0	415.7	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		50	404.0	416.7	430.2	474.1	404.0	416.7	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		52	404.0	417.0	430.2	474.1	404.0	417.0	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		54	404.0	417.3	430.2	474.1	404.0	417.3	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		56	404.0	417.6	430.2	474.1	404.0	417.6	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		58	404.0	417.9	430.2	474.1	404.0	417.9	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		60	404.0	418.3	430.2	474.1	404.0	418.3	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		62	404.0	418.6	430.2	474.1	404.0	418.6	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
		64	404.0	418.9	430.2	474.1	404.0	418.9	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1	442.2	430.2	474.1
STARTED INJECTING 5 GAL./MIN.	2050	66	404.0	418.9	430.2	474.1	404.0	418.9	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		68	404.0	418.9	430.2	474.1	404.0	418.9	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		70	404.0	418.9	430.2	474.1	404.0	418.9	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		72	404.0	419.2	430.2	474.1	404.0	419.2	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		74	404.0	419.2	430.2	474.1	404.0	419.2	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		75	404.0	419.2	430.2	474.1	404.0	419.2	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1	442.5	430.2	474.1
		76	404.0	419.8	434.3	474.1	404.0	419.8	434.3	474.1	442.5	434.3	474.1	442.5	434.3	474.1	442.5	434.3	474.1	442.5	434.3	474.1
		78	404.0	420.2	434.3	474.1	404.0	420.2	434.3	474.1	442.5	434.3	474.1	442.5	434.3	474.1	442.5	434.3	474.1	442.5	434.3	474.1



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068		INSTRUMENT # J-080		INSTRUMENT # J-251		INSTRUMENT # J-114		INSTRUMENT # J-493	
			PRESSURE (P.S.I.G.)		PRESSURE (P.S.I.G.)		PRESSURE (P.S.I.G.)		PRESSURE (P.S.I.G.)		PRESSURE (P.S.I.G.)	
STARTED INJECTING 10 GAL./MIN.	2105	80	404.0	420.5	434.3	442.5	474.1	474.1	474.1	474.1	474.1	474.1
		82	404.0	420.8	434.3	442.2	474.1	474.1	474.1	474.1	474.1	474.1
		84	404.0	421.4	434.3	442.2	474.1	474.1	474.1	474.1	474.1	474.1
		86	404.0	421.8	434.3	442.2	474.1	474.1	474.1	474.1	474.1	474.1
		88	404.0	421.8	434.3	442.2	474.1	474.1	474.1	474.1	474.1	474.1
		90	404.0	422.1	434.3	442.2	474.1	474.1	474.1	474.1	474.1	474.1
		92	404.0	423.0	434.3	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		94	404.0	423.3	434.3	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		96	404.6	423.7	434.3	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		98	405.0	424.0	435.6	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		100	405.6	424.3	435.9	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		102	405.9	424.6	436.2	442.2	473.8	473.8	473.8	473.8	473.8	473.8
STARTED INJECTING 20 GAL./MIN.	2120	104	406.2	424.6	436.5	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		105	406.5	424.6	436.5	442.2	473.8	473.8	473.8	473.8	473.8	473.8
		106	406.8	425.9	436.8	443.5	473.8	473.8	473.8	473.8	473.8	473.8
		108	407.1	426.8	437.8	443.5	473.8	473.8	473.8	473.8	473.8	473.8
		110	408.1	427.8	438.7	443.5	473.8	473.8	473.8	473.8	473.8	473.8
		112	409.0	428.8	439.4	443.5	473.8	473.8	473.8	473.8	473.8	473.8
		114	409.7	429.4	440.3	443.5	473.8	473.8	473.8	473.8	473.8	473.8
		116	410.3	429.7	440.6	445.7	473.8	473.8	473.8	473.8	473.8	473.8
		118	411.0	430.4	441.0	445.7	473.8	473.8	473.8	473.8	473.8	473.8
		120	411.6	431.0	441.6	445.7	473.8	473.8	473.8	473.8	473.8	473.8
		122	412.5	436.1	443.5	446.4	473.8	473.8	473.8	473.8	473.8	473.8
		124	415.1	438.6	445.7	446.4	473.8	473.8	473.8	473.8	473.8	473.8
STARTED INJECTING 40 GAL./MIN.	2135	126	417.0	440.5	447.3	446.4	473.8	473.8	473.8	473.8	473.8	473.8
		128	418.9	442.1	449.2	448.0	473.8	473.8	473.8	473.8	473.8	473.8
		130	420.1	443.7	450.5	448.0	473.8	473.8	473.8	473.8	473.8	473.8
		132	421.4	444.7	451.8	448.0	473.8	473.8	473.8	473.8	473.8	473.8
		134	422.3	445.3	453.0	448.0	473.8	473.8	473.8	473.8	473.8	473.8
		135	423.3	446.0	453.4	448.0	473.8	473.8	473.8	473.8	473.8	473.8
		136	423.6	448.2	454.0	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		138	424.9	451.4	455.6	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		140	426.5	453.6	457.5	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		142	428.0	453.9	459.1	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		144	429.3	454.9	460.0	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		146	430.3	456.5	461.0	452.2	473.8	473.8	473.8	473.8	473.8	473.8
FINISHED INJECTION - STARTED FALL-OFF.	2205	148	431.2	457.4	462.3	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		150	432.5	458.7	462.9	452.2	473.8	473.8	473.8	473.8	473.8	473.8
		152	432.5	456.5	463.2	449.9	473.8	473.8	473.8	473.8	473.8	473.8
		154	432.5	451.7	463.2	449.3	473.8	473.8	473.8	473.8	473.8	473.8
		156	432.5	447.6	462.6	448.6	473.8	473.8	473.8	473.8	473.8	473.8
		158	432.2	444.0	458.1	448.0	473.8	473.8	473.8	473.8	473.8	473.8
		160	430.3	441.2	455.3	447.7	473.8	473.8	473.8	473.8	473.8	473.8





PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE(P.S.I.G.)	INSTRUMENT # J-080 PRESSURE(P.S.I.G.)	INSTRUMENT # J-251 PRESSURE(P.S.I.G.)	INSTRUMENT # J-114 PRESSURE(P.S.I.G.)	INSTRUMENT # J-493 PRESSURE(P.S.I.G.)
		162	427.1	439.0	452.7	447.3	473.8
		164	424.9	437.0	450.8	447.0	473.8
		166	423.0	435.1	449.5	446.7	473.8
		168	421.7	433.9	448.0	446.4	473.8
		170	420.8	432.9	447.0	446.4	473.8
		172	419.5	431.9	445.7	446.0	473.8
		174	418.2	431.0	444.8	446.0	473.8
		176	417.6	430.0	444.1	445.7	473.8
		178	417.0	429.4	443.5	445.7	473.8
		180	416.3	429.1	442.9	445.7	473.8
		182	415.7	428.4	442.6	445.7	473.8
		184	415.4	428.1	441.9	445.7	473.8
		186	414.7	427.8	441.6	445.4	473.8
		188	414.4	427.5	441.3	445.4	473.8
		190	414.1	427.2	441.0	445.4	473.8
		192	413.8	427.2	440.6	445.4	473.8
		194	413.8	426.8	440.3	445.4	473.8
		196	413.8	426.8	440.0	445.4	473.8
		198	413.5	426.8	440.0	445.4	473.8
		200	413.2	426.5	439.7	445.4	473.8
		202	412.8	426.5	439.4	445.4	473.8
		204	412.8	426.5	439.1	445.4	473.8
		206	412.8	426.2	439.1	445.4	473.8
		208	412.8	426.2	438.7	445.4	473.8
		210	412.5	426.2	438.4	445.4	473.8
		212	412.5	426.2	438.4	445.4	473.8
		214	412.5	426.2	438.4	445.4	473.8
		216	412.5	426.2	438.4	445.4	473.8
		217	412.5	426.2	438.4	445.4	473.8
			407.5	422.4	434.6	448.0	479.1
			403.0	419.8	431.8	447.3	481.3
			299.7	318.6	331.4	345.8	378.4
		0	308.0	381.6	367.3	401.3	377.1
		1	303.5	327.2	339.3	352.9	376.5
		2	303.5	327.2	339.3	352.9	376.2
		4	303.5	327.2	339.3	352.9	375.9
		6	303.5	327.2	339.3	352.9	375.3
		8	303.5	327.2	339.3	352.9	375.0
		10	303.5	327.2	339.3	352.9	374.6
		12	303.5	327.2	339.3	352.9	374.3
		14	303.5	327.2	339.3	352.9	374.3
		16	303.5	327.2	339.3	352.9	374.0
		18	303.5	327.2	339.3	352.9	374.0
FINISHED FALL-OFF - CYCLED TOOL	2312						
PULLED PACKER LOOSE	2319						
FINAL HYDROSTATIC	2319-2334						
MOVED UP HOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 2ND SETTING(1-15-75)	0015-0030						
OPENED TOOL	0038						
CLOSED TOOL FOR INITIAL SHUT-IN	0039						



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
INITIAL SHUT-IN - CYCLED TOOL	0109	20	303.5	327.2	339.3	352.9	373.7
		22	303.5	327.5	339.3	352.9	373.7
		24	303.5	327.5	339.3	352.9	373.7
		26	303.5	327.5	339.3	352.9	373.4
		28	303.5	327.5	339.3	352.9	373.4
		30	303.5	327.5	339.3	352.9	373.4
		31	303.5	327.5	339.3	352.9	373.4
		32	305.4	325.9	338.3	351.3	373.4
		34	305.4	325.9	338.3	351.3	373.4
		36	305.4	325.9	338.3	351.3	373.4
TOOL RE-OPENED FOR WATER INFLOW	0116	38	305.4	365.7	372.7	386.8	373.4
		40	305.4	333.8	342.8	361.3	373.4
		42	305.4	330.7	342.2	357.1	373.4
		44	305.4	330.3	342.2	357.1	373.4
		46	305.4	329.7	341.8	356.8	373.4
		48	305.4	329.4	341.8	356.5	373.4
		50	305.4	329.1	341.8	356.5	373.4
		52	305.4	329.1	341.8	356.5	373.4
		54	305.4	329.1	341.8	356.5	373.4
		56	305.4	329.1	341.5	356.5	373.4
STARTED INJECTING 5 GAL./MIN.	0140	58	305.4	329.1	341.5	356.5	373.1
		60	305.4	329.1	341.5	356.5	373.1
		62	305.4	329.1	341.5	356.5	373.1
		64	305.4	329.4	342.5	356.5	373.1
		66	305.4	330.3	342.8	356.5	373.1
		68	305.4	331.0	343.1	357.1	373.1
		70	305.4	331.0	343.8	357.4	373.1
		72	305.4	331.6	343.8	357.8	373.1
		74	305.4	331.6	343.8	358.4	373.1
		76	305.4	331.6	343.8	358.4	373.1
STARTED INJECTING 10 GAL./MIN.	0155	77	305.4	331.6	343.8	358.4	373.1
		78	305.4	336.1	346.0	360.0	373.1
		80	305.4	337.0	348.5	362.6	373.1
		82	305.4	337.7	349.5	363.6	373.1
		84	305.4	338.0	349.8	363.9	372.8
		86	305.4	338.3	350.1	364.2	372.8
		88	305.4	338.6	350.4	364.5	372.8
		90	305.4	343.1	350.4	364.5	372.8
		92	305.4	343.1	354.9	369.0	372.8
		94	305.4	348.2	360.0	372.8	372.8
STARTED INJECTING 20 GAL./MIN.	0210	96	305.4	351.4	362.8	378.1	372.8
		98	305.4	353.0	364.4	379.7	372.4
		100	305.4	353.9	365.4	380.0	372.4



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-433 PRESSURE (P.S.I.G.)
STARTED INJECTING 40 GAL./MIN.	0225	102	305.4	354.6	366.0	380.6	372.4
		104	305.4	355.2	366.3	380.6	372.4
		106	305.4	355.2	366.3	381.0	372.4
		107	305.4	355.2	366.3	381.0	372.4
		108	305.4	372.4	382.5	395.1	372.4
		110	305.4	388.0	397.4	410.3	372.4
		112	305.4	396.6	404.7	419.3	372.4
		114	305.4	402.0	409.8	424.5	372.4
		116	305.4	405.8	413.6	428.6	372.4
		118	305.4	409.0	416.5	431.5	372.4
		120	305.4	410.0	417.1	432.2	372.4
		122	305.4	410.0	419.0	434.4	372.4
		124	305.4	420.2	430.8	446.4	372.1
		126	305.4	430.0	438.4	453.5	372.1
		128	305.4	435.8	443.2	458.0	372.1
		130	305.4	439.3	445.7	460.5	372.1
STARTED INJECTING 60 GAL./MIN.	0240	132	305.4	441.8	448.3	462.8	372.1
		134	305.4	444.4	449.9	465.1	372.1
		136	305.4	446.0	449.9	466.3	372.1
		137	305.4	446.0	450.2	466.3	372.1
		138	305.4	439.9	370.4	459.6	372.1
		140	305.4	411.6	357.7	438.3	372.1
		142	305.4	362.5	352.3	389.7	372.1
		144	305.4	346.0	349.5	373.2	372.1
		146	305.4	339.9	347.6	367.1	372.1
		148	305.4	336.7	346.6	364.2	372.1
		150	305.4	335.1	345.7	362.3	372.1
		152	305.4	334.2	345.0	361.3	372.1
		154	305.4	333.2	344.7	360.3	372.1
		156	305.4	332.9	344.1	360.0	372.1
		158	305.4	332.6	343.8	359.7	372.1
		160	305.4	332.3	343.4	359.4	372.1
FINISHED INJECTION - STARTED FALL-OFF	0255	162	305.4	331.6	343.4	359.1	372.1
		164	305.4	331.3	343.1	358.7	372.1
		166	305.4	331.3	343.1	358.7	372.1
		168	305.4	331.0	342.8	358.4	372.1
		170	305.4	330.7	342.5	358.4	372.1
		172	305.4	330.7	342.5	358.4	372.1
		174	305.4	330.7	342.2	358.4	372.1
		176	305.4	330.7	342.2	358.4	372.1
		178	305.4	330.3	342.2	358.4	372.1
		180	305.4	330.3	342.2	358.1	372.1
		182	305.4	330.3	342.2	358.1	372.1





## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
FINISHED FALL-OFF - CYCLED TOOL PULLED PACKER LOOSE FINAL HYDROSTATIC MOVED UP HOLE FOR NEXT TEST. INITIAL HYDROSTATIC FOR 3RD SETTING OPENED TOOL CLOSED TOOL FOR INITIAL SHUT-IN	0355 0409 0409-0424 0444-0459 0508 0509	184	305.4	330.3	341.8	356.1
		186	305.4	330.0	341.8	372.1
		188	305.4	330.0	341.8	372.1
		190	305.4	330.0	341.8	372.1
		192	305.4	330.0	341.8	372.1
		194	305.4	330.0	341.8	372.1
		196	305.4	330.0	341.8	372.1
		197	305.4	330.0	341.8	372.1
			305.4	326.2	337.4	372.1
			302.0	317.3	328.8	372.1
			283.9	304.9	313.6	359.9
		0	288.0	315.1	325.6	363.7
		1	288.0	304.2	318.0	363.7
		2	288.0	304.2	318.0	363.7
		4	288.0	304.2	318.0	363.7
		6	288.0	304.2	318.0	363.7
		8	288.0	304.2	318.0	363.7
		10	288.0	304.2	318.0	363.7
		12	288.0	304.2	318.0	363.7
		14	288.0	304.2	318.0	363.7
		16	288.0	304.5	318.0	363.7
INITIAL SHUT-IN - CYCLED TOOL	0539	18	288.0	304.5	318.0	363.7
		20	288.0	304.5	318.0	363.7
		22	288.0	304.5	318.0	363.7
		24	288.0	304.5	318.0	363.7
		26	288.0	304.5	318.0	363.7
		28	288.0	304.5	318.0	363.7
		30	288.0	304.5	318.0	363.7
		31	288.0	304.5	318.0	363.7
		32	288.3	304.9	318.3	363.7
		34	288.3	304.9	318.3	363.7
		36	288.3	304.9	318.3	363.7
		38	288.3	304.9	318.3	363.7
		40	288.3	308.4	321.5	363.7
		42	288.3	307.7	321.5	363.7
		44	288.3	307.7	321.5	363.7
		46	288.3	307.7	321.5	363.7
		48	288.3	307.7	321.5	363.7
		50	288.3	307.7	321.8	363.7
STARTED INJECTING 5 GAL./MIN.	0600	52	288.3	307.7	321.8	363.7
		54	288.3	308.7	323.7	363.7



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #3

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT #J-088 PRESSURE(P.S.I.G.)	INSTRUMENT #J-080 PRESSURE(P.S.I.G.)	INSTRUMENT #J-251 PRESSURE(P.S.I.G.)	INSTRUMENT #J-114 PRESSURE(P.S.I.G.)	INSTRUMENT #J-493 PRESSURE(P.S.I.G.)
STARTED INJECTING 10 GAL./MIN.	0615	56	288.3	310.9	324.4	332.0	363.7
		58	288.3	311.9	325.0	332.0	363.7
		60	288.3	312.8	325.6	332.0	363.7
		62	288.3	313.5	326.0	332.0	363.7
		64	288.3	313.8	326.0	332.0	363.7
		66	288.3	313.8	326.0	332.0	363.7
		67	288.3	313.8	326.0	332.0	363.7
		68	289.6	317.0	329.5	332.0	363.7
		70	290.2	320.8	332.6	332.0	363.7
		72	291.2	323.0	335.2	332.0	363.7
		74	292.1	324.9	336.8	332.0	363.7
		76	293.1	326.2	338.0	332.0	363.7
		78	294.0	327.2	339.3	332.0	363.7
STARTED INJECTING 20 GAL./MIN.	0630	80	294.7	327.8	339.9	332.0	363.7
		82	295.6	328.8	340.9	332.0	363.7
		84	296.6	331.0	343.1	332.0	363.7
		86	297.8	344.7	354.9	332.0	363.7
		88	299.4	352.3	363.1	332.0	363.7
		90	301.3	358.1	368.8	332.0	363.7
		92	302.9	362.2	373.0	332.0	363.7
		94	304.5	365.4	376.2	332.0	363.7
		96	306.4	368.2	379.0	332.0	363.7
		97	307.7	368.9	380.0	332.0	363.7
		98	308.3	380.0	390.1	332.0	363.7
		100	310.2	393.4	403.8	332.0	363.7
		102	312.4	402.0	412.7	332.0	363.7
STARTED INJECTING 40 GAL./MIN.	0645	104	314.9	408.7	419.0	332.0	363.7
		106	317.5	413.5	423.8	332.0	363.7
		108	320.0	417.6	427.3	332.0	363.7
		110	322.6	420.5	430.5	332.0	363.7
		112	325.4	422.7	431.4	332.0	363.7
		114	328.6	438.6	443.8	332.0	363.7
		116	332.1	460.3	462.9	332.0	363.7
		118	335.9	466.0	471.1	332.0	363.7
		120	339.3	467.9	473.4	332.0	363.7
		122	342.2	468.9	475.0	332.0	363.7
		124	345.4	469.5	475.6	332.0	363.7
		126	347.3	469.8	476.2	332.0	363.7
		127	349.5	470.2	476.9	332.0	363.7
FINISHED INJECTION - STARTED FALL-OFF	0715	128	349.5	443.1	451.5	332.0	363.7
		130	349.5	401.7	414.0	332.0	363.7
		132	349.5	378.8	393.3	332.0	363.7
		134	349.5	369.5	391.4	332.0	363.7



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		136	349.5	365.7	378.4	332.0	363.7
		138	347.6	362.8	375.2	332.0	363.7
		140	344.7	360.0	373.6	332.0	363.7
		142	341.6	356.8	370.8	332.0	363.7
		144	339.0	354.2	367.9	332.0	363.7
		146	336.5	351.4	365.4	332.0	363.7
		148	333.6	348.8	362.5	332.0	363.7
		150	331.4	346.0	359.6	332.0	363.7
		152	329.5	343.7	357.4	332.0	363.7
		154	327.9	341.8	355.2	332.0	363.7
		156	326.0	339.9	353.3	332.0	363.7
		158	324.1	338.0	351.1	332.0	363.7
		160	322.6	336.4	349.5	332.0	363.7
		162	321.3	334.8	347.6	332.0	363.7
		164	319.7	333.2	346.0	332.0	363.7
		166	318.4	331.6	344.7	332.0	363.7
		168	316.8	330.3	343.1	332.0	363.7
		170	315.6	329.1	341.8	332.0	363.7
		172	314.3	327.5	340.3	332.0	363.7
		174	313.0	326.2	338.7	332.0	363.7
		176	311.5	324.9	337.4	332.0	363.7
		178	310.5	323.7	336.1	332.0	363.7
		180	309.9	322.7	335.2	332.0	363.7
		182	308.9	321.7	333.9	332.0	363.7
		184	308.0	321.1	332.6	332.0	363.7
		186	307.3	320.2	332.0	332.0	363.7
		187	306.7	319.8	331.4	332.0	363.7
			301.6	314.7	326.3	335.9	366.8
			288.7	309.0	322.5	334.9	369.3
			271.2	293.7	305.0	319.7	353.6
		0	278.2	310.9	321.2	334.9	354.9
		1	278.2	300.1	312.0	324.6	354.9
		2	278.2	300.1	312.0	324.6	354.9
		4	278.2	298.2	310.7	324.6	354.9
		6	278.2	298.2	310.4	324.6	354.9
		8	278.2	297.9	310.4	324.6	354.9
		10	278.2	297.9	310.4	324.6	354.9
		12	278.2	297.9	310.4	324.6	354.9
		14	278.2	297.9	310.4	324.6	354.9
		16	278.2	297.9	310.4	324.6	354.9
		18	278.2	297.9	310.4	324.6	354.9
		20	278.2	297.9	310.4	324.6	354.9
		22	278.2	297.9	310.4	324.6	354.9
		24	278.2	297.9	310.4	324.6	354.9

FINISHED FALL-OFF - CYCLED TOOL  
 PULLED PACKER - OOSE  
 FINAL HYDROSTATIC  
 MOVED UP HOLE FOR NEXT TEST.  
 INITIAL HYDROSTATIC FOR 4TH SETTING  
 OPENED TOOL  
 CLOSED FOR INITIAL SHUT-IN



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCRE.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
INITIAL SHUT-IN - CYCLED TOOL	1001	26	278.2	297.9	310.4	324.6	354.9
		28	278.2	297.9	310.4	324.6	354.9
		30	278.2	297.9	310.4	324.6	354.9
		31	278.2	297.9	310.4	324.6	354.9
		32	280.7	296.3	309.1	323.6	354.2
		34	280.7	296.3	309.1	323.6	354.2
		36	280.7	296.3	309.1	323.6	354.6
		38	280.7	303.3	309.1	323.6	354.6
		39	280.7	303.3	309.1	323.6	354.6
		40	280.7	302.6	313.9	328.1	354.6
TOOL FEED-OPENED FOR WATER INFLOW	1009	42	280.7	300.7	313.9	328.1	354.6
		44	280.7	299.4	312.6	327.2	354.6
		46	280.7	298.8	311.7	326.5	354.6
		48	280.7	298.5	311.0	325.9	354.6
		50	280.7	298.5	310.7	325.5	354.6
		52	280.7	298.2	310.4	325.5	354.6
		54	280.7	298.2	310.4	325.5	354.6
		56	280.7	298.2	310.4	325.5	354.6
		58	280.7	298.2	310.4	325.5	354.6
		60	280.7	298.2	310.4	325.5	354.6
STARTED INJECTING 5 GAL./MIN.	1100	62	280.7	298.2	310.4	325.5	354.6
		64	280.7	298.2	310.4	325.5	354.6
		66	280.7	298.2	310.4	325.5	354.9
		68	280.7	298.2	310.4	325.2	354.9
		70	280.7	298.2	310.4	325.2	354.9
		72	280.7	298.2	310.4	325.2	354.9
		74	280.7	298.2	310.4	325.2	354.9
		76	280.7	298.2	310.4	325.2	354.9
		78	280.7	298.2	310.4	325.2	354.9
		80	280.7	298.2	310.4	325.2	354.9
STARTED INJECTING 10 GAL./MIN.	1115	82	280.7	298.2	310.4	325.2	354.9
		84	280.7	298.2	310.4	325.2	354.9
		86	280.7	298.2	310.4	325.2	354.9
		88	280.7	298.2	310.4	325.2	354.9
		90	280.7	298.2	310.4	325.2	354.9
		92	280.7	299.4	316.7	326.5	354.9
		94	280.7	305.5	321.5	331.0	354.9
		96	280.7	311.2	325.3	336.5	354.9
		98	280.7	314.7	327.2	340.0	354.9
		100	280.7	317.0	329.1	342.3	354.9
		102	280.7	318.9	330.7	344.6	354.9
		104	280.7	319.8	331.0	345.2	354.9
		106	280.7	319.8	331.0	345.2	354.9
		108	280.7	321.1	338.3	351.0	354.6
		110	280.7	339.3	355.5	369.0	354.6
				356.1	367.6	381.6	354.6





## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068		INSTRUMENT # J-080		INSTRUMENT # J-251		INSTRUMENT # J-114		INSTRUMENT # J-493	
			PRESSURE(P.S.I.G.)		PRESSURE(P.S.I.G.)		PRESSURE(P.S.I.G.)		PRESSURE(P.S.I.G.)		PRESSURE(P.S.I.G.)	
STARTED PUMPING 20 GAL./MIN.	1130	112	280.7	358.7	370.1	364.8	354.6	354.6	354.6	354.6	354.6	354.6
		114	280.7	362.2	373.3	368.4	354.6	354.6	354.6	354.6	354.6	354.6
		116	280.7	366.0	376.5	391.9	354.6	354.6	354.6	354.6	354.6	354.6
		118	280.7	369.2	380.0	395.5	354.6	354.6	354.6	354.6	354.6	354.6
		120	280.7	372.4	382.8	397.4	354.6	354.6	354.6	354.6	354.6	354.6
		122	280.7	393.4	400.6	414.5	354.6	354.6	354.6	354.6	354.6	354.6
		124	280.7	410.6	418.1	432.5	354.6	354.6	354.6	354.6	354.6	354.6
		126	280.7	426.2	434.3	448.6	354.6	354.6	354.6	354.6	354.6	354.6
		128	280.7	442.1	448.9	464.1	354.6	354.6	354.6	354.6	354.6	354.6
		130	280.7	455.5	462.6	477.6	354.2	354.2	354.2	354.2	354.2	354.2
		132	280.7	467.0	475.0	490.8	354.2	354.2	354.2	354.2	354.2	354.2
STABILIZED. OVER-FLOWED.	1143	133	280.7	472.1	480.4	496.6	354.2	354.2	354.2	354.2	354.2	354.2
		134	280.7	474.9	483.2	499.2	354.2	354.2	354.2	354.2	354.2	354.2
		136	280.7	476.9	485.8	501.5	354.2	354.2	354.2	354.2	354.2	354.2
		138	280.7	478.1	487.0	503.1	354.2	354.2	354.2	354.2	354.2	354.2
		140	280.7	478.8	488.0	504.0	354.2	354.2	354.2	354.2	354.2	354.2
		142	280.7	479.4	488.6	504.4	354.2	354.2	354.2	354.2	354.2	354.2
		144	280.7	479.7	488.9	505.0	354.2	354.2	354.2	354.2	354.2	354.2
		146	280.7	480.0	489.3	505.3	354.2	354.2	354.2	354.2	354.2	354.2
		148	280.7	480.4	489.6	505.7	354.2	354.2	354.2	354.2	354.2	354.2
		150	280.7	460.9	471.8	491.2	354.2	354.2	354.2	354.2	354.2	354.2
		152	280.7	443.1	454.6	472.8	354.2	354.2	354.2	354.2	354.2	354.2
		154	280.7	426.5	438.1	455.4	354.2	354.2	354.2	354.2	354.2	354.2
FINISHED INJECTION - STARTED FALL-OFF.	1158	156	280.7	410.9	422.5	439.9	354.2	354.2	354.2	354.2	354.2	354.2
		158	280.7	398.2	409.2	426.7	354.2	354.2	354.2	354.2	354.2	354.2
		160	280.7	385.8	397.8	414.5	354.2	354.2	354.2	354.2	354.2	354.2
		162	280.7	374.9	387.0	402.9	354.2	354.2	354.2	354.2	354.2	354.2
		164	280.7	565.4	376.8	393.5	354.2	354.2	354.2	354.2	354.2	354.2
		166	280.7	356.1	367.9	382.3	354.2	354.2	354.2	354.2	354.2	354.2
		168	280.7	348.2	360.3	374.2	354.2	354.2	354.2	354.2	354.2	354.2
		170	280.7	341.2	353.3	367.4	354.2	354.2	354.2	354.2	354.2	354.2
		172	280.7	334.8	346.3	361.3	354.2	354.2	354.2	354.2	354.2	354.2
		174	280.7	329.4	340.9	356.2	354.2	354.2	354.2	354.2	354.2	354.2
		176	280.7	324.6	336.4	351.3	354.2	354.2	354.2	354.2	354.2	354.2
		178	280.7	320.5	332.6	346.8	354.2	354.2	354.2	354.2	354.2	354.2
		180	280.7	316.6	328.5	343.3	354.2	354.2	354.2	354.2	354.2	354.2
		182	280.7	313.1	325.3	340.4	354.2	354.2	354.2	354.2	354.2	354.2
		184	280.7	310.3	323.4	337.8	354.2	354.2	354.2	354.2	354.2	354.2
		186	280.7	308.0	320.2	335.2	354.2	354.2	354.2	354.2	354.2	354.2
		188	280.7	305.8	318.3	333.6	354.2	354.2	354.2	354.2	354.2	354.2
		190	280.7	304.2	316.7	332.0	354.2	354.2	354.2	354.2	354.2	354.2
		192	280.7	303.0	315.2	330.7	354.2	354.2	354.2	354.2	354.2	354.2
		194	280.7	301.7	314.2	330.1	354.2	354.2	354.2	354.2	354.2	354.2



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		196	280.7	300.7	313.6	328.8	354.2
		198	280.7	300.4	312.9	328.1	354.2
		200	280.7	299.8	312.3	328.1	354.2
		202	280.7	299.1	312.0	327.8	354.2
		204	280.7	298.8	311.7	327.2	354.2
		206	280.7	298.8	311.3	326.8	354.2
		208	280.7	298.8	311.3	326.5	354.2
			280.4	297.2	311.0	324.6	354.6
			277.9	293.4	306.6	321.4	355.2
			355.6	388.3	399.7	413.8	449.3
		0	371.7	381.6	369.5	384.2	418.6
		1	371.7	381.6	401.6	415.8	449.6
		2	371.7	381.6	395.5	409.6	442.4
		4	371.7	381.6	395.2	409.3	442.1
		6	371.7	381.6	395.2	409.3	441.8
		8	371.7	381.6	395.2	409.3	441.8
		10	371.7	381.3	394.9	409.3	441.5
		12	371.7	381.3	394.9	409.3	441.5
		14	371.7	381.3	394.9	409.3	441.5
		16	371.7	381.3	394.9	409.3	441.5
		18	371.7	381.3	394.9	409.0	441.5
		20	371.7	381.0	394.9	408.7	441.5
		22	371.7	381.0	394.9	408.7	441.5
		24	371.7	381.0	394.9	408.7	441.5
		26	371.7	381.0	394.9	408.7	441.5
		28	371.7	381.0	394.9	408.7	441.1
		30	371.7	381.0	394.9	408.7	441.1
		31	371.7	381.0	394.9	408.7	441.1
		32	372.3	396.9	396.2	410.3	442.7
		34	372.3	381.6	394.9	409.3	441.8
		36	372.3	381.6	394.9	409.3	441.8
		37	372.3	381.6	394.6	409.3	441.8
		38	372.3	360.9	380.3	391.6	424.5
		40	372.3	371.4	385.1	399.7	432.7
		42	372.3	374.0	386.6	400.9	434.2
		44	372.3	374.6	387.0	401.3	434.9
		46	372.3	374.9	387.3	401.9	435.2
		48	372.3	375.3	387.3	401.9	435.2
		50	372.3	375.6	387.6	402.2	435.2
		52	372.3	375.6	387.6	402.2	435.2
		54	372.3	375.6	387.9	402.2	435.5
		56	372.3	375.6	387.9	402.2	435.5
		58	372.3	375.6	387.9	402.2	435.5
FINISHED FALL-OFF - CYCLED TOOL	1258						
PULLED PACKER LOOSE	1307						
FINAL HYDROSTATIC	1307-1322						
MOVED DOWN MOLE FOR NEXT TEST.							
INITIAL HYDROSTATIC FOR 5TH SETTING.	1350-1405						
OPENED TOOL	1412						
CLOSED TOOL FOR INITIAL SHUT-IN.	1413						
INITIAL SHUT-IN - CYCLED TOOL	1443						
TOOL RE-OPENED FOR WATER INFLOW	1449						
STARTED INJECTING 5 GAL./MIN.	1510						



## PRESSURE DATA FOR, MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P. S. I. G.)	INSTRUMENT # J-080 PRESSURE (P. S. I. G.)	INSTRUMENT # J-251 PRESSURE (P. S. I. G.)	INSTRUMENT # J-114 PRESSURE (P. S. I. G.)	INSTRUMENT # J-493 PRESSURE (P. S. I. G.)
STARTED INJECTING 10 GAL./MIN.	1525	60	372.3	380.0	391.4	405.8	435.9
		62	372.3	381.3	393.3	407.7	440.8
		64	372.3	381.9	393.9	408.7	441.5
		66	372.3	382.6	394.6	409.0	442.1
		68	372.3	384.5	395.2	410.0	443.0
		70	372.3	385.1	397.1	411.6	444.3
		72	372.3	385.1	397.1	411.6	444.3
		73	372.3	385.1	397.1	411.6	444.3
		74	372.3	386.4	399.7	412.5	445.5
		76	372.3	387.7	400.3	413.8	446.8
		78	372.3	388.3	400.9	414.5	447.4
		80	372.3	388.6	401.6	415.1	448.0
		82	372.3	389.3	401.9	415.4	448.7
		84	372.3	389.3	401.9	416.1	449.0
STARTED INJECTING 20 GAL./MIN.	1540	86	372.3	389.6	402.2	416.1	449.3
		88	372.3	389.9	402.2	416.2	449.9
		90	372.3	396.9	405.7	424.5	456.5
		92	372.3	399.8	409.5	426.4	459.0
		94	372.3	401.4	411.4	427.7	460.3
		96	372.3	402.3	413.0	428.3	461.2
		98	372.3	403.3	414.0	429.3	462.2
		100	372.3	403.9	414.6	429.6	463.1
		102	372.3	407.4	415.2	432.5	466.7
		103	372.3	407.4	415.6	432.8	465.6
		104	372.3	414.1	420.0	436.7	466.6
		106	372.3	421.8	428.3	444.4	475.4
		108	372.3	425.3	432.4	448.0	479.7
		110	372.3	427.5	434.6	450.2	482.2
STARTED INJECTING 60 GAL./MIN.	1610	112	372.3	429.1	436.2	451.5	484.1
		114	372.3	430.0	437.2	452.5	485.1
		116	372.3	431.0	438.1	453.5	486.0
		118	372.3	431.0	438.1	453.8	486.3
		120	372.3	440.5	445.7	462.5	493.5
		122	372.3	445.6	449.2	466.0	497.0
		124	372.3	448.5	451.1	467.0	498.9
		126	372.3	448.5	451.5	467.6	499.5
		128	372.3	449.5	452.4	468.9	500.1
		130	372.3	450.4	453.4	469.9	501.1
		132	372.3	451.7	454.3	470.2	501.7
		133	372.3	452.0	454.3	470.2	501.7
		134	372.3	438.0	438.4	444.8	479.7
		FINISHED INJECTION - STARTED FALL-OFF.	1625	136	372.3	418.6	425.4
138	372.3			408.1	417.5	427.0	460.3
140	372.3			401.4	411.7	422.2	455.3





PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		142	372.3	396.6	407.9	419.0	451.5
		144	372.3	393.7	405.4	416.1	449.3
		146	372.3	391.2	403.5	414.5	447.1
		148	372.3	389.6	401.6	412.9	445.2
		150	372.3	388.0	400.3	411.9	444.3
		152	372.3	387.0	399.3	410.9	443.7
		154	372.3	386.1	398.7	410.3	442.7
		156	372.3	385.4	398.1	409.6	442.1
		158	372.3	384.8	397.1	408.7	441.8
		160	372.3	384.5	396.8	408.4	441.5
		162	372.3	383.9	396.2	408.0	440.8
		164	372.3	383.5	395.9	407.7	440.8
		166	372.3	383.2	395.5	407.4	440.5
		168	372.3	382.9	395.2	406.7	440.2
		170	372.3	382.9	394.9	406.7	440.2
		172	372.3	382.6	394.6	406.7	440.2
		174	372.3	382.6	394.3	406.4	440.2
		176	372.3	382.6	393.9	406.4	440.2
		178	372.3	382.3	393.6	406.4	440.2
		180	372.3	381.9	393.6	406.1	440.2
		182	372.3	381.9	393.6	405.8	440.2
		184	372.3	381.6	393.3	405.8	440.2
		186	372.3	381.6	393.3	405.8	440.2
		188	372.3	381.6	393.0	405.8	439.9
		190	372.3	381.6	392.7	405.8	439.9
		192	372.3	381.6	392.7	405.5	439.9
		193	372.3	381.6	392.7	405.5	439.9
			372.3	382.1	401.6	415.1	449.6
			371.3	388.3	398.7	412.2	448.4
			261.7	277.5	289.4	303.6	339.2
		0	263.0	376.2	388.2	362.6	338.6
		1	263.0	281.9	294.5	309.4	338.6
		2	263.0	281.9	294.5	309.4	338.6
		4	263.0	281.9	294.5	309.8	338.6
		6	263.0	281.9	294.5	309.8	338.6
		8	263.0	281.9	294.5	309.8	338.6
		10	263.0	281.9	294.5	309.8	338.6
		12	263.0	281.9	294.5	309.8	338.6
		14	263.0	281.9	294.5	309.8	338.6
		16	263.0	281.9	294.5	309.8	338.6
		18	263.0	281.9	294.5	309.8	338.6
		20	263.0	281.9	294.5	309.8	338.6

FINISHED FALL-OFF - CYCLED TOOL  
 PULLED PACKER LOOSE  
 FINAL HYDROSTATIC  
 MOVED UP HOLE FOR NEXT TEST.  
 INITIAL HYDROSTATIC FOR 6TH SETTING  
 OPENED TOOL  
 CLOSED TOOL FOR INITIAL SHUT-IN



## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		142	372.3	396.6	407.9	419.0	451.5
		144	372.3	393.7	405.4	416.1	449.3
		146	372.3	391.2	403.5	414.5	447.1
		148	372.3	389.6	401.6	412.9	445.2
		150	372.3	388.0	400.3	411.9	444.3
		152	372.3	387.0	399.3	410.9	443.7
		154	372.3	386.1	398.7	410.3	442.7
		156	372.3	385.4	398.1	409.6	442.1
		158	372.3	384.8	397.1	408.7	441.8
		160	372.3	384.5	396.8	408.4	441.5
		162	372.3	383.9	396.2	408.0	440.8
		164	372.3	383.5	395.9	407.7	440.8
		166	372.3	383.2	395.5	407.4	440.5
		168	372.3	382.9	395.2	406.7	440.2
		170	372.3	382.9	394.9	406.7	440.2
		172	372.3	382.6	394.6	406.7	440.2
		174	372.3	382.6	394.3	406.4	440.2
		176	372.3	382.6	393.9	406.4	440.2
		178	372.3	382.3	393.6	406.4	440.2
		180	372.3	381.9	393.6	406.1	440.2
		182	372.3	381.9	393.6	405.8	440.2
		184	372.3	381.6	393.3	405.8	440.2
		186	372.3	381.6	393.3	405.8	440.2
		188	372.3	381.6	393.0	405.8	439.9
		190	372.3	381.6	392.7	405.8	439.9
		192	372.3	381.6	392.7	405.5	439.9
		193	372.3	392.1	401.6	415.1	449.6
			371.3	388.3	398.7	412.2	448.4
			261.7	277.5	289.4	303.6	339.2
		0	263.0	376.2	388.2	362.6	338.6
		1	263.0	281.9	294.5	309.4	338.6
		2	263.0	281.9	294.5	303.4	338.6
		4	263.0	281.9	294.5	309.8	338.6
		6	263.0	281.9	294.5	309.8	338.6
		8	263.0	281.9	294.5	309.8	338.6
		10	263.0	281.9	294.5	309.8	338.6
		12	263.0	281.9	294.5	309.8	338.6
		14	263.0	281.9	294.5	309.8	338.6
		16	263.0	281.9	294.5	309.8	338.6
		18	263.0	281.9	294.5	309.8	338.6
		20	263.0	281.9	294.5	309.8	338.6

FINISHED FALL-OFF - CYCLED TOOL  
 PULLED PACKER LOOSE  
 FINAL HYDROSTATIC  
 MOVED UP HOLE FOR NEXT TEST.  
 INITIAL HYDROSTATIC FOR 6TH SETTING  
 OPENED TOOL  
 CLOSED TOOL FOR INITIAL SHUT-IN



PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
INITIAL SHUT-IN - CYCLED TOOL	1911	22	263.0	281.9	294.5	309.8	338.6
		24	263.0	281.9	294.5	309.8	338.6
		26	263.0	281.9	294.5	309.8	338.6
		28	263.0	281.9	294.5	309.8	338.6
		30	263.0	281.9	294.5	309.8	338.6
		31	263.0	281.9	294.5	309.8	338.6
		32	264.3	281.3	294.5	309.4	338.6
		34	264.3	281.3	294.5	309.4	338.6
		36	264.3	281.3	294.5	309.4	338.6
		38	264.3	281.3	294.5	309.4	338.6
TOOL RE-OPENED FOR WATER INFLOW	1920	40	264.3	368.9	360.0	321.4	338.6
		42	264.3	361.2	373.6	313.6	338.6
		44	264.3	350.1	362.8	310.7	338.6
		46	264.3	340.2	353.3	310.7	338.6
		48	264.3	331.6	345.0	310.7	338.6
		50	264.3	324.3	337.7	310.7	338.6
		52	264.3	317.3	330.7	310.7	338.6
		54	264.3	311.2	324.7	310.7	338.6
		56	264.3	306.1	319.9	310.7	338.6
		58	264.3	302.0	315.5	310.7	338.6
STARTED INJECTING 5 GAL./MIN.	2025	60	264.3	298.2	311.3	310.7	339.2
		62	264.3	295.0	308.2	310.7	339.2
		64	264.3	292.4	305.6	310.7	339.2
		66	264.3	290.5	303.4	310.7	339.2
		68	264.3	288.9	301.5	310.7	339.2
		70	264.3	287.7	299.3	310.7	339.2
		72	264.3	286.4	298.6	310.7	339.2
		74	264.3	285.4	297.7	310.7	339.2
		76	264.3	284.8	297.0	310.4	339.2
		78	264.3	284.2	296.4	310.4	339.2
		80	264.3	283.8	295.8	310.4	339.2
		82	264.3	283.5	295.5	310.1	339.2
		84	264.3	283.2	295.1	310.1	339.2
		86	264.3	283.2	295.1	310.1	339.2
		88	264.3	282.9	295.1	310.1	339.2
		90	264.3	282.9	294.8	310.1	339.2
		92	264.3	282.6	294.8	310.1	339.2
		94	264.3	282.6	294.5	310.1	339.2
		96	264.3	282.6	294.5	310.1	339.2
		98	264.3	282.3	294.5	310.1	339.2
		100	264.3	282.3	294.5	310.1	339.2
		102	264.3	282.3	294.5	310.1	339.2
		104	264.3	281.9	294.5	310.1	339.2
		105	264.3	281.9	294.5	310.1	339.2





## PRESSURE DATA FOR MULTI-PACKER TEST SERIES #

DESCRIPTION	TIME OF DAY	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
		106	264.3	287.7	300.2	310.1	339.2
		108	264.3	297.5	310.4	310.1	339.2
		110	264.3	307.1	318.3	310.1	339.2
		112	264.3	315.4	326.6	310.1	339.2
		114	264.3	322.4	334.2	310.1	339.2
		116	264.3	329.1	340.6	310.1	339.2
		118	264.3	335.1	346.3	310.1	339.2
		120	264.3	340.5	351.7	310.1	339.2
	2040	122	264.3	357.4	368.5	310.1	339.2
		124	264.3	372.4	383.1	310.1	339.2
		126	264.3	386.1	396.5	310.1	339.2
		128	264.3	398.2	408.2	310.1	339.2
		130	264.3	410.0	419.4	310.1	339.2
		132	264.3	420.5	429.5	310.1	339.2
		134	264.3	430.0	438.7	310.1	339.2
	2055	135	264.3	437.7	448.0	310.1	339.2
		136	264.3	430.7	442.2	310.1	339.2
		138	264.3	415.4	424.8	310.1	339.2
	2100	140	264.3	404.6	417.1	310.1	339.2
		142	264.3	433.2	439.7	310.1	339.2
		144	264.3	454.6	459.7	310.1	339.2
		145	264.3	461.9	469.2	310.1	339.2
	2107	147	264.3	465.7	472.7	310.1	339.2
		148	264.3	465.7	472.7	310.1	339.2
		150	264.3	465.7	472.7	310.1	339.2
		152	264.3	465.7	473.7	310.1	339.2
		154	264.3	465.7	474.3	310.1	339.2
		156	264.3	466.3	475.0	310.1	339.2
		158	264.3	466.3	475.6	310.1	339.2
		160	264.3	466.7	476.2	310.1	339.2
		162	264.3	467.0	476.5	310.1	339.2
	2122	164	264.3	447.9	459.4	310.1	339.2
		166	264.3	430.4	441.0	310.1	339.2
		168	264.3	413.8	424.8	310.1	339.2
		170	264.3	398.2	409.8	310.1	339.2
		172	264.3	384.5	396.5	310.1	339.2
		174	264.3	372.1	372.7	310.1	339.2
		176	264.3	360.3	361.5	310.1	339.2
		178	264.3	350.1	352.3	310.1	339.2
		180	264.3	340.2	344.1	310.1	339.2
		182	264.3	331.3	336.1	310.1	339.2
		184	264.3	323.7	329.1	310.1	339.2
		186	264.3	317.0			

STARTED INJECTING 10 GAL./MIN.

FINISHED INJECTION, BEGAN FALL-OFF.

STARTED INJECTING 20 GAL./MIN.

11 GAL./MIN. TO SURFACE

FINISHED INJECTION - STARTED FALL-OFF.





TIME OF DAY	DESCRIPTION	INCR.	INSTRUMENT # J-068 PRESSURE (P.S.I.G.)	INSTRUMENT # J-080 PRESSURE (P.S.I.G.)	INSTRUMENT # J-251 PRESSURE (P.S.I.G.)	INSTRUMENT # J-114 PRESSURE (P.S.I.G.)	INSTRUMENT # J-493 PRESSURE (P.S.I.G.)
188			264.3	310.9	323.4	310.1	339.2
190			264.3	305.5	318.3	310.1	339.2
192			264.3	301.0	314.2	310.1	339.2
194			264.3	297.2	310.1	310.1	339.2
196			264.3	294.0	306.9	310.1	339.2
198			264.3	291.2	304.4	310.1	339.2
200			264.3	289.3	302.4	310.1	339.2
202			264.3	287.3	300.2	310.1	339.2
204			264.3	286.1	299.0	310.1	339.2
206			264.3	285.1	297.7	310.1	339.2
208			264.3	283.8	297.0	310.1	339.2
210			264.3	283.2	296.4	310.1	339.2
212			264.3	282.9	295.8	310.1	339.2
214			264.3	282.6	295.5	310.1	339.2
216			264.3	282.3	295.1	310.1	339.2
218			264.3	281.9	295.1	310.1	339.2
220			264.3	281.9	294.8	310.1	339.2
222			264.3	281.9	294.8	310.1	339.2
224			264.3	281.9	294.8	310.1	339.2
225			264.3	281.9	294.8	310.1	339.2
226			267.4	281.6	294.8	310.1	339.2
228			270.9	281.6	294.8	310.1	339.2
230			274.1	281.6	294.8	310.1	339.2
232			277.2	281.6	294.8	310.1	339.2
234			280.4	281.6	294.8	310.1	339.2
236			283.3	281.6	294.8	310.1	339.2
238			283.9	281.6	294.8	310.1	339.2
240			284.2	281.9	294.8	310.1	339.2
242			291.2	281.9	294.8	310.1	339.2
244			297.5	282.3	294.8	310.1	339.2
246			303.9	282.3	294.8	310.1	339.2
248			309.2	282.3	294.8	310.1	339.2
250			314.0	282.6	294.8	310.1	339.2
252			318.7	282.6	294.8	310.1	339.2
254			322.9	282.6	294.8	310.1	339.2
255			324.8	282.6	294.8	310.1	339.2
256			328.3	282.9	294.8	310.1	339.2
258			334.3	282.9	294.8	310.1	339.2
260			341.6	282.9	294.8	310.1	339.2
262			347.6	282.9	294.8	310.1	339.2
264			353.6	282.9	294.8	310.1	339.2
266			358.3	282.9	294.8	310.1	339.2
268			362.2	282.9	294.8	310.1	339.2
270			364.7	282.9	294.8	310.1	339.2
2222	FINISHED FALL-OFF.						
2225	STARTED INJECTING DOWN ANNULUS: 20 GAL./MIN.						
2240	STARTED INJECTING DOWN ANNULUS: 40 GAL./MIN.						
2255	STARTED INJECTING DOWN ANNULUS: 60 GAL./MIN.						
2310	FINISHED INJECTION - STARTED FALL-OFF.						

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a presentation of the results of the study.

4. The fourth part of the report is a discussion of the results and their implications.

5. The fifth part of the report is a conclusion and a list of references.

6. The sixth part of the report is a list of appendices.

1. The first part of the report is a general introduction to the subject of the study.	100
2. The second part of the report is a detailed description of the methods used in the study.	150
3. The third part of the report is a presentation of the results of the study.	200
4. The fourth part of the report is a discussion of the results and their implications.	250
5. The fifth part of the report is a conclusion and a list of references.	300
6. The sixth part of the report is a list of appendices.	350